

MANUFACTURERS RECORD

A WEEKLY SOUTHERN INDUSTRIAL, RAILROAD AND FINANCIAL NEWSPAPER

Trade-Name Registered in the U. S. Patent Office.

VOL. LIX. No. 11.
WEEKLY.

BALTIMORE, MARCH 23, 1911

\$4.00 A YEAR.
SINGLE COPIES, 15 CENTS.

Manufacturers Record.

PUBLISHED EVERY THURSDAY BY THE
MANUFACTURERS RECORD PUBLISHING CO.
BALTIMORE.

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Branch Offices:

New York—52 Broadway.
Boston—643 Old South Building.
Chicago—1116 Fisher Building.
St. Louis—543 Century Building.

Subscription, - - - - - \$4 a year
(payable in advance) to United States,
Mexico, Cuba, Porto Rico, Hawaii and the
Philippines.

To Foreign Countries (including Canada) in
the Postal Union, \$6.50 a year.

[Entered at the Baltimore Postoffice as sec-
ond-class matter.]

BALTIMORE, MARCH 23, 1911.

WILLIAM D. BLOXHAM.

Florida lost one of its best citizens in the death last week of William D. Bloxham. He spent practically all of his 76 years in the State of his birth, and had willingly heeded every call made upon him to service of the State. Twice he was its Governor, and he was also at different times Secretary of State, a member of the Legislature, Surveyor-General and State Comptroller, in all giving 26 years to official life. Without self-seeking, modest, intent upon his duty to his fellows, both in private life and public station, interested in the material development of his State, his service to Florida cannot be measured alone by his public acts, but it must take into consideration the fact that he was a model citizen in every respect.

THE MASTER BUILDERS.

Every valley shall be exalted, every mountain and hill shall be made low, the crooked places shall be made straight and the rough places plain, and a highway shall be there and a way. Because of them the parched ground shall become a pool, the thirsty land, springs of water and the habitation of jackals, grass; the wilderness and solitary place shall be glad for them, and the desert shall rejoice and blossom as the rose. In that thought is epitomized civilization, the process of conquering and appropriating for the betterment of the human race the powers and gifts of nature. The civilizer is the man who stands for accomplishment in this task, no matter how difficult, in the quickest time and with the most substantial results justified by the means at his disposal. The

pioneers in the modern work of civilization, the men who must combine to a notable degree imagination, hard-headedness, courage and resourcefulness, are the great contractors, and of them John B. McDonald was a type. Not always are their dominant qualities appreciated by their fellows, even while they are enjoying the results of the contractors' genius. The successful politician or the military leader eminent in the glamor of war still appeals strongly to the minds of many persons who forget that success of their kind generally means either destruction or a hampering of progress. But a greater and greater number of men are coming to know that the great work for civilization is constructive. When that conviction attains its full measure the men who have eased things in life, who have made possible saving of time and energy, the great contractors, will be recognized as among the master builders for civilization.

INCREASED USE OF COMMERCIAL FERTILIZERS IN THE SOUTH.

An increase in the consumption of fertilizers in twelve Southern States from 1,083,964 tons in 1901 to 3,607,817 tons in 1910 indicates the rapidity of the development of the fertilizer industry in this section and likewise gives a reason for the very great increase in diversified farming interests in the South, as well as the larger yield per acre of many Southern crops. Connected with this increase in the consumption of fertilizers is the interesting fact that though labor and farming implements have advanced in price, there has been no material advance in the price of fertilizers in the last fifteen years. Owing to the large production and strong competition, fertilizers are now sold on a small margin of profits, very different from the larger profits of the earlier days. Some years ago, when the fertilizer industry was in its infancy, enormous profits were made by the manufacturers. In those days a farmer would agree to deliver in the fall a bale of cotton for a ton of standard fertilizer delivered to him in the spring with which to make the cotton. At the present time a bale of cotton will buy from two to three tons of the same grade of fertilizer. This is a striking change in the relative position in the cost of fertilizers and the selling price of cotton. In the old days of high-priced fertilizers during the period following the war the apparent profit on fertilizers was enormous, but much of the business was done on a "wild-cat" basis, unfortunate to the consumer and the manufacturer alike. Within recent years this has entirely changed. The business now is on a solid basis, and bad debts are practically nothing as compared to what they were. Probably no more striking illustration could be given of the change in the cost of fertilizers as compared with cotton from the day when one ton of fertilizer was sold in exchange for one bale of

cotton than the fact that cottonseed, in those days a waste product, is now of such value that it is claimed the seed will more than pay for all the fertilizer the farmer uses with which to make his crop. A well-posted fertilizer man recently said to the writer that he believed his company would be willing to furnish all the fertilizers within reason that a farmer would use on cotton if he would agree to give them the seed from the cotton thus produced. As a bale of cotton was in former years equal in purchasing power to only one ton of fertilizer, whereas now the same bale will buy two to three tons of fertilizer, it is not altogether impossible but what the time will come when the relative value of cottonseed and fertilizers will show equally as radical a change.

The consumption of fertilizers by twelve States in the South in 1901 and 1910 was, in tons, as follows:

| States. | 1910. | 1901. |
|---------------------|-----------|-----------|
| Virginia..... | 346,555 | 200,000 |
| North Carolina..... | 619,915 | 285,578 |
| South Carolina..... | 721,500 | 293,000 |
| Georgia..... | 1,015,104 | 457,153 |
| Florida..... | 121,425 | 37,946 |
| Alabama..... | 401,632 | 191,583 |
| Mississippi..... | 131,526 | 66,173 |
| Tennessee..... | 55,900 | 49,048 |
| Louisiana..... | 87,990 | 47,883 |
| Texas..... | 34,340 | 10,590 |
| Arkansas..... | 37,000 | 15,000 |
| Kentucky..... | 45,000 | 40,000 |
| Total..... | 3,607,817 | 1,083,964 |

The most striking fact in connection with the growth in the use of fertilizers, as shown in the foregoing table, is the commanding position of Georgia, with a consumption of over 1,000,000 tons, as compared with a consumption in 1901 of 457,000 tons. South Carolina comes next in the list of consumption with 721,000 tons in 1910, against 293,000 tons in 1901, the percentage of gain in that State, however, being considerably larger than the percentage of increase in Georgia. Every State shows a very marked growth in its use of fertilizers, and yet it would seem that there is still great room for continued expansion in the consumption of fertilizers. The increase in the future ought to be greater than that of the period under discussion. While crop rotation, improved cultivation, the use of cowpeas and similar crops for the enrichment of the soil are all making much progress throughout the South to the betterment of agricultural conditions, the use of commercial fertilizers must grow with the growth of intensive farming and the bringing into cultivation of millions of acres of land lying idle now. The highest development of the agricultural interests of the South, as of every other section, requires the constant return to the soil of the ingredients consumed in the production of crops. The enrichment of the land bringing larger yields must go on, for with the more scientific farming that is now coming about by reason of the work of agricultural colleges, it is everywhere seen that shiftless farming, without proper fertilization, impoverishes the cultivator of the land as well as the soil. In the development of the fertilizer industry, where the South,

with its phosphate rock and cottonseed products, furnishes so large a basis for the supply of raw materials, the progress already made, remarkable as it has been, only indicates the stability of the industry and the vastness of its extent in the coming years.

COMMERCIAL MOTOR CARS.

The use for commercial purposes of vehicles propelled by steam or gasoline is becoming greater and greater in the United Kingdom, according to a report by United States Consul Halstead at Birmingham. He says that such motor vehicles, for which the use of gasoline engines is most general, are availed of by traveling salesmen touring the country with their samples; as delivery wagons for the postoffice department in cities and between large towns; by the express parcels service, and for breweries, bakeries, railways, department stores, fish and poultry stores, hardware stores, groceries, flour and seed and coal and coke merchants; in road work, such as rolling and sprinkling; in trolley-wire repair work; in the fire department; in heavy freight hauling, and in moving and plowing and other agricultural operations. The good roads of Great Britain, the highway movement in that country dating back to the Roman occupation, are calculated to hasten the tendency to make use of the motor car for business purposes, and its possibilities, already demonstrated in many lines, are bound to hasten road improvement in this country.

TO BE SURE, TO BE SURE.

In large, bold-faced type *Lestie's Weekly* of March 16 indicates that it has been misguided in asking, in the form of an advertisement:

Do you realize the fact that the vested wealth of the Southern States is today \$5,000,000,000 greater than the total wealth of the entire United States in 1861?

Do you realize the fact that the Southern cotton crop for the past twelve months is worth \$1,000,000,000, or twice as much as the output of all the gold mines of the world put together for the same period?

Do you realize the fact that in the South there are over three times as many square miles of bituminous coal lands as there are in Great Britain, Germany, France and Austria combined?

Do you realize the fact that the agricultural output of the South last year exceeded by \$200,000,000 the value of the entire agricultural output of the United States in 1861?

Do you realize the fact that the South has more iron ore unmined than there is in all Europe?

Do you realize the fact that over 40 per cent. of all the standing timber in the United States is in the South?

Do you realize the fact that nowhere else on earth is there such an opportunity for manufacturing interests, cotton, coal, iron, lumber, oil, sulphur, water-power?

Of course, the intelligence of the country that has kept itself informed about the progress of the South realizes all that and much more. It realizes, for instance, that the questions are rather belated, as far as news is concerned, in that they deal with positive facts published in their latest revision

on January 28 last in the 1911 edition of the MANUFACTURERS RECORD "Annual Blue Book of Southern Progress," as follows: [The parallel would be the refinement of cruelty.]

It is a Fact that

With a population less by 3,000,000 than the total of the United States in 1860, the wealth of the South is \$5,000,000,000 greater than the total wealth of the whole country in 1860.

It is a Fact that

The Southern cotton crop for the season 1910-1911 will be worth about \$1,000,000,000, or twice as much as the output of all the gold mines of the world for the same year.

It is a Fact that

The South has 62,000 square miles of bituminous coal lands, as against 17,000 square miles in Great Britain, Germany, France and Austria combined.

It is a Fact that

Though the South's population is now 3,000,000 less than was the population of the United States in 1860, the value of the agricultural output in the South last year exceeded by \$900,000,000 the value of the agricultural output of the United States in 1860.

It is a Fact that

According to official records the South has more iron ore than foreign experts have claimed for all of Europe.

It is a Fact that

Over 40 per cent. of the standing timber in the United States is in the South.

It is a Fact that

Nowhere else on earth are found in the same country to the same extent and susceptible of development to such great profit the foundations of all great manufacturing interests—cotton, coal, iron, lumber, phosphate rock, oil, sulphur, gas, water-powers and many other things.

Several thousand readers of the MANUFACTURERS RECORD's "Blue Book" know that this convenient and up-to-date epitome of information about the South, representing the results of nearly thirty years' work by the MANUFACTURERS RECORD in making known to the world Southern opportunities, contains a far greater amount of facts about the South than the questions of *Leslie's Weekly* echo. The liberality in *Leslie's Weekly* as to these facts, which may, by the way, have been tempered by the exigencies of a later edition, did not extend to:

It is a Fact that

The MANUFACTURERS RECORD is the only medium through which you can keep fully abreast of the material development of the South as typified in manufacturing, in railroad operations, in agriculture, in banking, and in everything else pertaining to the prosperity of this section.

Whoever supplied *Leslie's Weekly* with the material for the advertisement didn't ask whether one realizes that fact, obvious to the well-informed. Such a question would have been a dead giveaway.

But why change the date from 1860 to 1861?

ATTRACTING IMMIGRANTS.

Among the most recent inquiries from prospective homeseekers received by Commissioner of Agriculture G. W. Koerner of Virginia were letters from residents of Taylor, Neb.; Attleboro, Mass.; Marion, Ohio; Annandale, Minn.; Pittsburg, Pa.; Denver, Colo.; Sanger, N. D.; Omaha, Neb.; Desmet, S. D.; Grand Rapids, Mich.; Unity, Mont.; Athelstone, Wis.; Worcester, Mass.; Albany, N. Y.; McKeesport, Pa.; Zeeland, Mich.; Cheney, Wash.; Columbus, Ohio; New Brighton, N. Y.; Antigo, Wis.; Goldfield, Nev.; Oakland, Kan.; Princeville, Ill.; Montreal, Can.; Cleveland, Ohio; Rock Springs, Wyo.; New York City; Boston, Mass.; Fullerton, N. D.; Atlantic City, N. J.; Turtle Creek, Pa.; Kalamazoo, Mich.; New Madison, Ohio; Washington, Pa.; Hillmanton, Wis.; Iowa City, Iowa; Chicago, Ill.; Eugene, Ore.; Fort Wayne, Ind.; Columbia City, Ind.; Harrisburg,

Pa.; Wilkesburg, Pa.; Edelstein, Ill.; Cambridge, Ill.; Glenwood City, Wis.; Ashby, Mo.; Bellevue, Pa.; Buena Vista, Ohio; Spokane, Wash.; East Hampton, Mass.; Granby, Conn., and Saint Jo, Ind. Many of the inquiries are for information about farm lands generally, but others deal with special purposes, such as hog raising, sheep raising, poultry raising, dairying, alfalfa culture, orcharding, trucking, stock raising, general fruit culture, etc. The wide range of locations from which these inquiries come is mentioned here to illustrate the effects of the intelligent work that is being done by Commissioner Koerner to attract attention to Virginia's farming opportunities. They indicate that facts about such opportunities have been brought to the attention of a class of persons who would not only benefit themselves by becoming citizens of Virginia, but would also be influential in hastening the campaign for diversification in agriculture in that State. Homeseekers have no use for glittering generalities about the advantages of this State or that State; they are not impressed by perfervid oratory. They want definite facts. They want to know what the land can produce, how it is situated as to markets for products, its health conditions and its social circumstances. They have no interest in land speculation, either on an individual basis or by wholesale, and they are not attracted by schemes of exploitation of the kind. They naturally look to some State authority or other actual workers qualified by experience to give them accurate information. Such work, therefore, as that done by Commissioner Koerner for Virginia and by similar agencies in Maryland, Louisiana, Georgia, Texas and other States, under the auspices either of State officials, of railroad systems, or of reputable business bodies and individuals, is the kind of work that tells for immigration to the South.

Another phase of work for immigration to the South is illustrated in the circulation by Captain J. F. Merry of Manchester, Iowa, general immigration agent of the Illinois Central Railroad and a seasoned veteran in work for the South, of attractive literature embodying the records of the experiences of farmers from other parts of the country who have settled in the South. The latest literature of the kind circulated by him is a pamphlet showing the advantages of West Tennessee for farming, set forth in letters from former residents of South Dakota, Iowa, Minnesota, Illinois and Indiana who have prospered in that section of Tennessee as raisers of hogs and cattle and sheep, of Irish potatoes, sweet potatoes, cabbage, turnips, tomatoes, asparagus, berries, grain, cotton, etc. These men have seen their land increase in value from \$5 to \$25 an acre, and even more, and it is pointed out that while lands in that section sell today for from \$25 to \$50 an acre, they are equally as good and will produce as great a variety of crops as lands in Illinois and Iowa now selling for from \$100 to \$250 an acre. This advantage, the comparative cheapness of Southern farm lands, is, of course, one that can continue not many years longer with the influx of farmers like those who have written the letters to Captain Merry. Referring to them, he writes to the MANUFACTURERS RECORD:

What we want, and must have, are more of this kind of farmers permanently located in that territory. Your recent editorial as to methods adopted by the Harriman lines

in advertising the country on and contiguous to their lines is timely, and to my mind all of the conditions throughout the Northwest and Middle West are now favorable for increased exploitations of Southern resources and opportunities.

For the South to secure its full quota of the kind of farmers described by Captain Merry, it is necessary that the most liberal kind of right advertisement must be made through mediums such as the immigration and industrial departments of railroads, or of individual States that have demonstrated their ability to accomplish results of a definite kind, even with small resources. Right advertisement for immigration as for anything else is the saying or the doing of the right thing in the right place at the right time.

OPENING UP SOME VIRGINIA COUNTIES.

In the eastern part of Virginia, between the Potomac River on the north and the York and Mattapony Rivers on the south, lie ten counties full of material richness, but which are quite without railroad accommodations, not a mile of track being within their borders. Five of them are to the north of the Rappahannock River and five to the south of it, the section being about equally divided by that important stream. The country is rich, the chief industries being agriculture and fisheries. Communication with the rest of the world is by steamboat lines, principally to Baltimore, but some to Washington, and a strong movement has been started to build a railroad bisecting this agreeable territory for a distance of seventy or eighty miles, connecting with the main line between Washington and Richmond in such a manner as to provide easy means of communication between the now comparatively isolated counties and the capital of their State.

If this railroad is built, which now seems most probable, it will extend from Doswell, where the Chesapeake & Ohio Railway crosses the Richmond, Fredericksburg & Potomac Railroad, slightly southeast for several miles at Aylett's, on the Mattapony, and thence northeast to a point on the Wicomico River not far from Chesapeake Bay, of which that stream is an arm. The road will thus cross or touch Hanover, Caroline, King William, King and Queen, Middlesex, Essex, Richmond, Westmoreland and Northumberland counties, its eastern terminus being in the latter. All excepting the first three named are without railroads at present, and the projected line will thus accommodate six of the counties mentioned in the beginning. The others without railroads are King George, which is not far removed from the main line to Washington and Richmond; Lancaster, which adjoins Northumberland and Richmond counties on the south; Gloucester and Mathews, the last two having means of communication by steamer and rail (the York River route) with the city of Richmond. There is, however, some talk of building an electric railway to Urbanna, Va., which might be branched so as to afford direct rail facilities to those two counties, Urbanna being on the south side of the Rappahannock River, in Middlesex, an adjoining county.

It would appear surprising that a railroad has not been built long ago into some of these Virginia counties, but for the fact that steamboat communications are easy and comfortable, besides being not inconvenient. The crossing of many streams would also have operated to make the construction

of a railroad in the early days of steam transportation too expensive to be thought of, but now the Northern Neck especially has become so prosperous and attractive from a business point of view that the establishment of a railroad is deemed essential. The line proposed will have to cross the Mattapony and the Rappahannock rivers, not to mention the headwaters of the Pamunkey not far from the beginning of the route. But it is safe to say that success awaits the construction of the road; the promoters thereof have canvassed the territory thoroughly, and have been met with an enthusiastic desire to co-operate in its building. A recent meeting held at the Chamber of Commerce at Richmond awoke a hearty response from business men of that city, and steps have been taken to immediately raise \$150,000 for the line. Other places and sections along the route will also contribute. The new road seems to be assured.

The plans to build this line resemble other movements in other parts of the South to open up by means of railroads sections that have been passed by in the rush to construct main lines between large cities. There is scarcely a State south of the Potomac and the Ohio that is not witnessing steps being taken to reach with modern means of communication valuable sections which have been too long content with old-fashioned methods of going from place to place. Getting in touch with the rest of the world means progress.

MESSAGES FROM READERS.

The MANUFACTURERS RECORD has at times asked its readers for suggestions about its work and for expressions of opinions with a view to improving its columns. Such expressions are of value, but they are not as valued as the ones which come spontaneously now and then with renewals of subscription, or with the gaining of new readers. Several of the latter kind comments have reached us within the past few days. Col. Alfred B. Shepperson of New York City, recognized on both sides of the water as a statistical authority in the cotton trade, writes:

In renewing my subscription to your valuable journal let me say that while many things lose their value as they grow old, the MANUFACTURERS RECORD, like good sherry wine, improves with age. To those who are interested in the progress of the South the MANUFACTURERS RECORD is really invaluable.

Mr. N. M. Leach, general freight agent of the International Great Northern Railroad Co., writes:

Permit me to take advantage of this opportunity to say that we feel we cannot do without your publication in our office. I have subscribed for the MANUFACTURERS RECORD for a number of years and find it most valuable. Your publication contains a great deal of information to the general freight office of any railroad engaged in handling traffic to and from the Southwest. Through your publication we have been advised of contracts covering shipments that we had no other information concerning. For a long time I was located in the Southwest and found your paper very valuable there. Since I have been in the Southwest it has, if anything, been of more practical benefit to me.

Col. Fred A. Olds, secretary of the Chamber of Commerce and Industry of Raleigh, N. C., who has just made an extended trip through the South, writes:

Wherever I have been I have found the MANUFACTURERS RECORD to be a regular "book of reference" in the Chambers of Commerce and other organizations of that class.

C. L. Baker & Sons, contractors and builders of Quitman, Ga., write:

We can no longer withhold our opinion of

your most splendid weekly MANUFACTURERS RECORD. It is the most deeply interesting and instructive journal we have ever read, and, knowing it as we do, we gladly and heartily give it the highest praise. From now on we agree to take it by the year, and when that year expires, to renew our subscription, for as a guide in business it has no equal.

VASTNESS OF STEEL CORPORATION'S ACTIVITIES.

The vastness of the activities of the United States Steel Corporation is emphasized again in the ninth annual report issued last week for the past year ended December 31. In the report Chairman Elbert H. Gary states that the volume of business done by all companies during the year as represented by their combined gross sales and earnings equalled the sum of \$703,961,424.41, as compared with the total of \$646,382,251.29 in the preceding year. This amount represents the aggregate gross value of the commercial transactions conducted by the several subsidiary companies, and includes sales made between the subsidiary companies and the gross receipts of the transportation companies for services rendered both to subsidiary companies and to the public. The net earnings in 1910 were \$116,738,157.80, the interest on bonds amounted to \$29,247,850, in dividends \$50,634,802 were paid, and \$10,772,382.82 were carried forward to undivided surplus, bringing the total of that to \$164,143,157.99.

The number of employees increased from 195,500 in 1909 to 218,435 in 1910, and the amount of annual salaries and wages from \$151,663,394 to \$174,955,139.

The production of the subsidiary companies in 1909 included 25,245,816 tons of iron ore mined, 13,649,578 tons of coke manufactured, 4,850,111 tons of coal mined, not including that used in making coke, 5,005,087 tons of limestone quarried, 11,831,398 tons of blast-furnace products, 14,179,369 tons of steel ingots, 10,733,995 tons of rolled and other finished steel products for sale, 26,777 tons of spelter, 33,684 tons of sulphate of iron and 7,001,500 barrels of Portland cement.

The shipments of all classes of products to domestic customers outside the organization amounted to 11,337,879 tons of all material except cement, an increase of 750,968 tons for the year 1909, and 6,679,415 barrels of cement, an increase of 988,524 barrels. For export, 1,223,496 tons were shipped, an increase of 213,750 tons. Chairman Gary says that "the tonnage shipped for export in 1910 was the largest for any year since the organization of the corporation, and evidences the satisfactory progress which has been made in the extension of this branch of the business."

During the year there were expended for current maintenance and repairs to the various properties \$40,818,899.32, for unusual replacements and rehabilitations \$8,489,285.64 and for additional property extensions and construction and for striping and development work at the mines \$53,101,221.80, of the last-named amount, \$3,887,078.73 were for the Tennessee Coal, Iron & Railroad properties. Referring to them, Chairman Gary says:

"Additions were made to the manufacturing plants of the Tennessee Coal, Iron & Railroad Co. at Ensley, Ala., as follows: New 34-inch billet mill to supply billets to the new wire plant above described; new electrical power plant to supply power to above-mentioned wire plant and to afford additional requirements for the Ensley plant; new by-product coke plant, to consist of 280 ovens of the kopers type; new water supply system to serve the manufacturing interests in the Birmingham district, consisting of a reservoir having a capacity for impounding 2,500,000,000 gallons of water, together

with intake channel and tunnel for transmitting water to central pumping station and distributing pipe lines therefrom. On all of the foregoing work material progress was made during the year, and it is expected that all further work thereon will be completed and the several facilities be placed in operation at various dates during 1911."

CHESAPEAKE FISHERIES.

The value of the products of fisheries in Maryland and Virginia, within which State lie the Chesapeake Bay and its tributaries, was \$8,022,000 in 1908, according to a report of the Census Bureau. Virginia stood second among the States in the value of its fishery products, Massachusetts being first. The Virginia value was \$4,716,000, and the capital invested in vessels, outfit, etc., was about \$3,000,000, and 20,066 persons were employed. The year's catch included \$2,348,000 worth of oysters, 25,083 pounds of crabs, 1,969,000 pounds of clams, 7,314,000 pounds of shad, 190,089,000 pounds of menhaden and 37,885,000 pounds of alewives.

The Maryland products were valued at \$3,306,000, and the capital invested was \$2,090,000, while 18,392 persons were employed. The year's catch included \$2,228,000 worth of oysters, 29,000,000 pounds of alewives, or river herring, 20,000,000 pounds of crabs, 12,000,000 pounds of menhaden and 4,000,000 pounds of shad, together with sturgeon, striped bass, squeteague, yellow perch, etc.

BALTIMORE AND THE SOUTH.

Practical advertisement of Baltimore in the South was given this week in the maiden trip of the "Suwannee," the new vessel of the Merchants and Miners' Transportation Co., in the Baltimore-Savannah-Jacksonville service. Special guests on the trip from Baltimore were representatives of Baltimore mercantile interests and of banking, commercial and railroad interests of Savannah and Jacksonville, the two last-named municipalities being represented officially by Mayor George W. Tiedeman and Mayor William S. Jordan, respectively, who were heartily greeted by Mayor J. Barry Mahool of Baltimore.

THE COTTON MOVEMENT.

In his report for March 17 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 198 days of the present season was 10,573,426 bales, an increase over the same period last year of 1,692,717 bales. The exports were 6,483,361 bales, an increase of 1,768,290 bales. The takings were, by Northern spinners, 1,715,110 bales, an increase of 20,778 bales; by Southern spinners, 1,561,589 bales, a decrease of 11,330 bales.

"Back Home."

The Back Home Association suggested by Mr. W. D. Roberts, industrial agent of the Carolina, Clinchfield & Ohio Railroad, perfected organization last week at Chattanooga with Mr. J. P. Winn of Chattanooga, chairman, and W. D. Roberts of Johnson City, Tenn., secretary.

Gov. Lee Cruce of Oklahoma approved last week the bill creating a State highway department to be maintained by a tax of \$1 a year on each automobile in the State.

Commissioner of Labor J. C. A. Hiller of Missouri reports that in 1910 the output of tripoli in that State reached a value of \$69,635.

In a cargo of 2000 tons of scrap iron shipped from Galveston to Italy, according to a dispatch from Galveston, there were 10,000 horse and mule shoes.

Gov. Wm. Hodges Mann on Virginia Corn-Growing.

[Editorial Correspondence Manufacturers Record.]

Tampa, Fla., March 17.

Meeting the Governor of Virginia during a recent visit to Richmond, after an interchange of views about the resources of the South and what the Old Dominion was doing along agricultural lines, I asked him to give me some facts about corn-growing, and particularly about the showing made by 100 boys from the Southern States, including 15 from Virginia, at the National Corn Exhibition, held at Columbus, O., on the 1st of February last, and about the apple lands and the production of that fruit in his State, and I shall give the Governor's reply in his own language. He said:

"After my inauguration on the 1st of February, 1910, a careful examination was made into the resources and needs of the State, and I ascertained that the manufacturing interests had increased their products about sixteen millions a year for the preceding two years; that the commercial interests of the State were in good shape and improving, but that the agricultural interests were following the old beaten track in which our farmers had walked for the last hundred years, apparently not quickened by the improvement and progress manifested in every other department of human activity. I favored good roads and good schools, in which the State had made rapid advance since 1907, but knowing that money, and a great deal of it, was necessary, I reached the conclusion that in order to have substantial progress a condition of prosperity would have to be created, and our agricultural interests presented the most inviting field for earnest, vigorous efforts and promised the quickest and best results.

"We had a Commissioner and Board of Agriculture and agricultural college at Blacksburg, and various experiment stations as State agencies for the advancement of this interest, and the United States Department of Agriculture, acting through Dr. S. A. Knapp and T. O. Sandy, had been doing a great deal of good by demonstration work, and it occurred to me that if these agencies could be combined and co-ordinated so as to work together as an harmonious whole good results might be expected. I accordingly drew a bill, which was passed by the Legislature of 1910, establishing the United Agricultural Board, composed of representatives from the agencies I have named, and which has helped to further the work already being done.

"We found our farmers intelligent, conservative and skeptical, and, of course, slow to take hold of new methods and unwilling to accept results already attained. And so our enthusiastic and progressive Superintendent of Public Instruction, who, with the Governor, represents the Board of Education on the United Agricultural Board, with the help of the United States Department of Agriculture, commenced to organize Boys' Corn Clubs in connection with the public schools. Boys from 10 to 19 were permitted to join, and each boy required to cultivate one acre of corn under directions furnished him, to keep a complete record of his work, including fertilizers, and to furnish a history of it and its cost when his crop was gathered. The land and corn to be measured by disinterested and reliable parties, and affidavits made which constitute a part of the history of the work. Just here I should state that a part of our plan was and is the employment of county agents or demonstrators, one for each county, whose salary is paid by the county and the United Agricultural

Board in equal proportions. He must be a well-informed, practical farmer, able to give information upon all subjects connected with the crops, stock and fruit trees in his county, and be at the call of any farmer needing his help, not only to talk to him, but to show him on the ground what is best to be done with his land under existing conditions. The boys took hold of the work with youthful enthusiasm, were addressed at various points by me and other speakers and agents of the United Board, and soon produced results which made their conservative fathers set up and take notice. I can't go into details, but in Appomattox county the boys averaged 84 bushels of corn to the acre, and in the entire State the average was over 60 bushels, compared with about 27 all over the United States and 41 bushels in Iowa. The boy making the highest yield lives in Dinwiddie county, and made 167 7-8 bushels of corn on an acre of land which a few years ago would not have produced 20 bushels. He made this crop at a cost of 24 3/4 cents a bushel, reached by charging him with \$5 for the rent of the land and all of his fertilizer and labor, and not giving him credit for the increased value of the land which is in condition to make two or three crops without much help. Upon this basis he made a profit of about \$90, putting his corn at 60 cents a bushel, but as he is selling it for seed at about \$1.50 per bushel, his profit will be over \$200.

"Not to bore you with details, I will say that 100 Southern boys, 15 from Virginia, made exhibits at Columbus, and these boys, on 100 acres of land, made 13,300 bushels of corn, or an average of 133 bushels to the acre, and the Virginia boys made their crops at an average cost of 18 cents a bushel.

"To produce these crops the land must be full of humus, which can be gotten with peas, crimson or German clover and ordinary red clover, and the land must be limed with from 1000 to 2000 pounds of caustic lime to the acre, or if ground limestone is used, about three times that quantity, and this latter, while more costly on account of extra freight on the bulk, is by far the best. This application need not be made oftener than every three or four years. The land should be broken up about the ordinary depth in the fall or winter and subsoiled so as to present a seed bed of from 16 to 21 inches, and, of course, with a capacity for holding a considerable quantity of moisture. If stable manure is to be had, a liberal coating should be given the land, and from 300 to 500 pounds of bone meal should be applied. The land should be gotten in thorough order and the corn planted in rows three feet six inches apart and about eight inches in the step, and the seed should be carefully selected, as this will make a difference of one-third in the yield. When the corn is about eight or ten inches high an application of some good fertilizer should be made, and again when the corn commences to shoot and tassle. The crop should never have a turning plow in it, unless there is an emergency, such as a very wet season and strong growth of grass, but should be worked level with a cultivator after every rain, so as to make a dust mulch of about one and a half inches thick, as this prevents evaporation of the moisture in the land and enables the farmer to make a good crop in very dry weather. These are general directions, but accurate instructions are given by the United States Department of Agriculture and by the county agents. When the crop

is laid by, or between the 1st and 15th of August, German clover should be sowed between the corn rows and lightly covered with a cultivator. If this is done the land will be ready for a crop the following year, and can be kept in a constantly improving condition.

"While the efforts of the United Board and the United States Department of Agriculture have been mainly directed to improved methods of producing corn, grass has not been neglected, and from four to six tons of hay has been made on land which a few years ago was thought not to be adapted to grass.

"A gentleman who came to Virginia from California made last year on 150 acres of land \$35,000 worth of alfalfa, and will do it again this year without re-seeding.

"We have now some 35 county agents in Virginia, and expect to enlarge our work until each one of our 100 counties is supplied. These have to report to supervising district agents, who, in turn, report to the State agent. While corn was taken as a leader, improved methods are being applied to all crops made in the State, and the farmers are encouraged in every possible way to adopt them, and their attention is called to cattle and farmers are urged to procure well-bred stock and to keep an account of the milk given and food consumed by each cow in his dairy, to the end that all unprofitable cows may go to the butcher and only the profitable retained. We are also experimenting with domestic science with the purpose of teaching our country girls all about the garden and house, how to sew and make clothes, cook, wash and discharge all domestic duties, how to can fruit, raise poultry, and, indeed, everything tending to make our homes neat, comfortable, well supplied and happy, and our girls are showing great interest in and making great progress in the arts and knowledge which will make them queens of their homes.

"Virginia has been making progress for years past, and although having more than 10,000,000 acres of idle arable land, and less than 4,000,000 acres in cultivation, has increased its agricultural, mineral, stock, lumber and fruit products from \$129,000,000 in 1900 to \$236,000,000 last year.

"I must not overlook our apple crop, which is assuming grand proportions, and last year brought in not far from \$10,000,000. It is conceded that in the Valley, from Waynesboro up, in Albemarle especially, in the coves and foothills of the mountains, and, indeed, throughout the Piedmont and Southwest Virginia, has the finest apple lands in the world. Trees in Augusta and elsewhere produced last year 30 barrels of apples to the tree, and one famous old tree, known as the 'Old Handy Tree,' produced over 110 bushels. In January of this year there was a meeting of the Horticultural Society and an apple exhibit at Roanoke, at which I was present, and met a gentleman from the State of Washington, who had been a judge of at least two apple exhibits at Spokane, and who told me that he knew what he was talking about, and did not intend to exaggerate when he said that the Roanoke exhibit was the best exhibit of non-irrigated fruit the world had ever seen. The people in the apple sections are enthusiastically pushing this industry, which promises to add very largely to the wealth of our State."

"Our corn crop last year increased 7,293,000 bushels, and my hope," said the Governor, "is to double our agricultural products during my administration."

"If we can do this we can have good roads, good schools, happy home and such

prosperity that our boys and girls will stay at home."

In conclusion the Governor said: "I rely greatly upon the MANUFACTURERS RECORD for information, and believe that it should be credited with much of the prosperity and progress of the South and of old Virginia, and we are very grateful for your help."

Governor Mann has set his heart upon the broadest advancement of the agricultural interests of the State, and he looks forward with confidence to the time when sections of Virginia now regarded as the most backward agriculturally will rival the agricultural prosperity of the famed Shenandoah Valley. It is in the power of the chief executives of the Southern States to stimulate the people of each State to a concentration of thought and energy upon the upbuilding of agriculture as well as manufactures, just as Governor Mann is doing in Virginia. His administration promises to mark a distinct epoch in this respect in that State. R. H. E.

Holston Corporation Coal Piers.

The Holston Corporation now has authority for the construction of its proposed coal piers on Town Creek at Charleston, S. C., the Governor having signed the bill recently passed by the State Legislature. These piers are to handle coal from the Clinchfield Coal Corporation's mines, and it has been reported several hundred thousand dollars will be expended for their construction. The Holston Corporation is controlled through the Clinchfield Coal Corporation of Spartanburg, S. C., and the Carolina, Clinchfield & Ohio Railway, over whose railway the coal will be shipped. George L. Carter of Johnson City, Tenn., is president, and Mark W. Potter of 24 Broad street, New York is chairman of the railway company.



"CITY OF BALTIMORE" AND "CITY OF NORFOLK."

Chesapeake Steamship Co.'s New Steamers.

The fine new steamers City of Baltimore and City of Norfolk, built by the Maryland Steel Co. for the Chesapeake Steamship Co., are being fitted up for the summer's season to begin about April 12. The vessels will be scheduled to make the run from Baltimore to Norfolk in 12½ hours, including stop at Old Point Comfort. Each vessel has 147 staterooms, with accommodations for carrying in all as many as 400 passengers, besides a crew of 52. The vessels are 310 feet long and 46 feet beam, with draft when loaded of 13 feet 3 inches. Of the staterooms, 8 are main deck, 81 saloon deck and 58 gallery deck. Of these, 6 will be provided with private bath and 10 with private shower bath, while there will be 2 general bathing compartments, all provided with hot and cold, fresh and salt-water facilities, and shower baths are also provided for the crew. As

Big Florida Land Allotment.

Much interest is manifested in the allotment of 12,000 farms embracing 180,000 acres of Everglade lands sold on contract by the Florida Fruit Lands Co. in the past two years. A dispatch from Fort Lauderdale, the scene of the allotment, to the Miami Metropolis says that the deeds were transferred on March 16 to trustees for the contract-holders, and that the town of Fort Lauderdale is to be incorporated on March 27. The Metropolis says:

"This event is one of current and historic importance. It is the largest allotment of land ever made in the United States, with the exception of those conducted by the Government for homestead rights. The land company which is making the allotment spent nearly \$30,000 in transportation charges alone to bring representatives to Fort Lauderdale, and the tent city which is spread at Progresso, the town site to be opened, has never had its duplicate in any State before. Some 3000 people are gathered there, representing at least three-fourths of the States of the Union, and they are there for serious business. The appearance is much like that of a national political convention, the difference being that this gathering means more to the State of Florida than any national political convention ever did."

Manufacturing Corncob Washboards.

Corncob washboards will be manufactured by C. W. Kennon of 2217 Seventh avenue, Ybor City, Tampa, Fla. He has contracted for the manufacture of the board frames and the galvanized-iron binders, which he will assemble with corncob for the completed washboards. Mr. Kennon's initial orders call for the assembling of 5000 boards. He claims that the corncobs become soft and pliable from the water, and then form an ideal surface on which to wash clothes.

To Attract Immigrants.

Increased activity on part of the Southern Railway Co. in the work of attracting settlers to the South is indicated by the announcement that two additional traveling immigration agents have been appointed in the land and industrial department. T. H. Jones, with headquarters at St. Louis, will travel the Central West, and J. B. Finster will have headquarters at Washington, D. C. These new appointees are well equipped with experience and training in immigration work, and their duties will be to solicit desirable classes to locate in the South. For years the Southern Railway Co. has devoted its energies and employed its means for development of the territory it serves, as well as for the betterment and expansion of its lines and equipment. Through its land and industrial department a carefully-prepared plan for the promotion of immigration and industrial enterprises was devised when the company was organized in 1894, and this has been steadily followed. It has drawn the attention of capital and enterprise from all parts of the United States and from Europe to the South, its opportunities and resources, and has thus identified itself with the progress of the South.

Rubber Works for Oklahoma City.

Pneumatic and solid tires for automobiles and other rubber goods will be manufactured at Oklahoma City. A plant for this purpose will be erected by the Oklahoma Rubber Co., which has organized with the following officers: President, J. A. Swinehart of Akron, O.; secretary, H. E. Swan of Oklahoma City. It is planned to erect a \$25,000 building of reinforced concrete fireproof construction, 100x200 feet in size, and install therein the necessary machinery. This machinery has been purchased, but the company will want prices on a 150-horse-power oil engine, a 100-horse-power steam engine and a steam boiler 6x18 feet for 100 pounds of steam pressure. Mr. Swan invites the proposals.

Texas City's Grain Elevator.

The 500,000-bushel grain elevator which the Texas City Transportation Co. has been building at the Gulf port of Texas City is about completed. It includes a 58x170-foot building, which is 165 feet high at its highest point; 20 circular steel tanks, 11 interspersed tanks, elevator equipment, conveying machinery, etc., driven by electricity from the company's central electric plant. The elevating machinery has a capacity of 15,000 bushels, and is equipped with 32-inch belts and cups, connecting with a drier having a capacity of 5000 bushels. Other machinery includes separators, blowers, scales, electric signal system, 2500-foot conveyor, etc.

Of Interest to Contractors.

Contractors prepared to submit proposals for construction of a church building at Aberdeen, Miss., are invited to correspond with R. H. Hunt of Chattanooga, Tenn., or C. L. Tubb, secretary of the building committee, at Aberdeen. They had invited proposals until March 9, but have extended the date to March 30. Mr. Hunt is the architect.

Another Portland Cement Plant.

The Freeborn Construction Co. of Kansas City is reported to have purchased 2100 acres of land near Pine Hill, Ky., as site for the construction of a cement plant which will be designed for a daily capacity of 1600 barrels of Portland cement. No further details have been announced, but it is stated the company will arrange to begin construction in the near future.

Development of Oklahoma's Mineral Resources.

By CHAS. N. GOULD, State Geologist.

[Written for the Manufacturers Record.]

During the past year there has been a very substantial increase in the development of all lines of mineral products in Oklahoma.

As in former years, the oil and gas industries have been paramount. During the year 1910 Oklahoma produced about 54,000,000 barrels of oil, which is nearly twice as much as Pennsylvania ever produced in her palmiest days. This exceeds Oklahoma's former record of about 6,000,000 barrels, notwithstanding the fact that on account of preconcerted action on part of the producers few new wells were drilled and comparatively little new territory developed. The completion of an additional pipe line from the Oklahoma field to Baton Rouge has increased the transportation facilities to such an extent that for the first time transportation is approximately equal to the production. The most spectacular development has been in the Osage field, near the town of Osage, not far from the old Cleveland field. A number of wells with an initial production of 3000 to 4000 barrels per day have been brought in in the Osage field.

Natural gas is being used more and more. Pipe lines have been extended to a number of towns, and several new wells have been brought in. The most interesting field is not far from Poteau, in Eastern Oklahoma. On the advice of the State geologist a well was drilled near the axis of a well-marked anticline. At a depth of about 1600 feet a strong flow of gas was encountered. The well produced 2,500,000 feet at its inception, and in three months was producing 5,000,000. There is strong reason to believe that if the well had been drilled a few feet deeper it would have shown oil. Another field is in Southern Oklahoma, some 20 miles west of Ardmore. This is near the Wheeler oil field, and its location would seem to indicate large oil and gas areas. Gas wells have recently been discovered near Ponca City, in Northern Oklahoma. The general tendency of the discovery of new oil and gas wells within the past year is to justify the prediction frequently made that at the present time only a small part of the productive area of the State has yet been prospected. These three new gas wells, in widely-separated areas, greatly extend the limits of the possible field as heretofore known.

The strike by the coal miners during the early part of the past year had its effect on lessening the coal production in Oklahoma. After adjustment of the strike most of the mines were opened, and have been running ever since. A few of them, however, are now closing down for the summer. Statistics are not available as to the amount of coal produced during the year.

There has been more asphalt mined in Oklahoma the past year than any single year in the State's history. The grahamite deposits at Tuskahoma and Antlers have been in continuous operation. The material here obtained is shipped to Fort Smith, Ark., where it is used for roofing and paint. A number of cities in the State have used rock asphalt from the Arbuckle Mountain region for street paving during the year, and in a number of others contracts have been let for the use of this material. The people of Oklahoma are waking up to the fact that it is poor business policy to use the burned-out residue from oil refineries for street paving when high-grade material for this construction is lying dormant in the hills.

The gypsum industry has remained about normal. There are 10 gypsum mills

now in operation in Oklahoma, turning out wall plaster and other gypsum products. These mills have been worked to their full capacity practically every month in the year.

The salt industry is quiescent; no plants have been established, and the amount of salt water going to waste in Western Oklahoma is estimated to be sufficient to make 100 carloads of salt a day.

There has been considerable activity in the building stone trade. Granite quarries near Granite and Cold Springs in the Wichita Mountains have been in operation and have supplied to the State a considerable amount of high-grade material. The old quarry near Tishomingo, in the Arbuckle Mountains, from which in former years stone was obtained to construct the old Chickasaw Council House, has been reopened and the stone is being used for the Government postoffice building at Oklahoma City.

By far the most important item connected with the stone trade in Oklahoma is the opening of excellent oolite deposits near Bromide, in the southern part of the State. The location of the ledge has been known for some time, but only within the last few months has it been operated. The stone, which is almost pure white, is a fairly fine-grained oolite, and is very similar to the Bedford stone, except that it is more uniform in color and stands a higher crushing test. The ledge is 70 to 100 feet thick, with very few seams or bedding planes, and is exposed in a cliff along a stream. A company with ample capital has obtained control of the ledge, and extensive machinery has been installed for its operation. It is expected that stone from this quarry will be shipped within the next few weeks.

There are in operation in the State some 15 or 20 stone crushers from which material is obtained for concrete and other similar work. In most cases the stone crushed is limestone, although conglomerate or sandstone is used in a few instances.

The clay industry has had a steady increase during the year. Up to the present time the best-equipped plant in Oklahoma has been in operation at Cleveland, where large quantities of face and common brick have been produced. At the present time, however, a plant is being installed at Boynton capable of producing 200,000 brick a day. Both of these plants are in the gas belt, and the question of fuel is a simple one. There are some 20 or 30 brick plants in Oklahoma located at various points, chiefly in the eastern part of the State.

The Portland cement industry has been fairly active. Plants at Dewey and Ada have increased their capacity and have been running full time. The Dewey plant has a capacity of 3000 barrels and the Ada plant 2800 barrels per day. The Choctaw Portland Cement Co.'s plant at Hartshorne is practically completed, and the company expects to begin shipping material within a few weeks. Within the last year limekilns of a small capacity have been established at Wapanucka and Bromide. Both these plants are turning out a high-grade material.

The lead and zinc industry at Miami has been active all year. A number of new mines have been developed and a considerable amount of machinery has been installed. There has been considerable activity in the lead and zinc fields of the Arbuckle Mountains, and it is reported that at least two mills are to be built in that region.

Notwithstanding the fact that Okla-

homa is now producing a considerable amount of mineral products, it is true that by far the greater part of manufactured articles used in the State comes from outside. With inexhaustible deposits of granite and high-grade building stone, practically all the better class of buildings in the State now contain Indiana limestone or granite from some other region. Oklahoma sends practically a million dollars a year to Kansas for pressed brick and Portland cement. All the salt used in the State comes from Kansas, Texas or Louisiana. With as-

phalt deposits inexhaustible, the greater part of the street pavement of the State is constructed of the burned-out residue from oil refineries. With limestone enough to supply the world, the greater part of the lime used comes from Texas and Arkansas.

There is no State in the Union where there is a greater incentive for establishing factories and plants than in Oklahoma. The raw material is here, with plenty of fuel for its manufacture; transportation is ample, and the people are loyal to home industries.

GOVERNMENT BUILDING IN THE SOUTH.

[Written for the Manufacturers Record.]

In the act of the last session of the Sixty-first Congress making appropriations for sundry civil expenses in the fiscal year beginning July 1 next provision was made for the expenditure of \$8,436,895 in the Southern States and in Missouri and Oklahoma, principally for the acquisition of sites and the beginning of work upon Federal buildings, chiefly postoffices, although some of the appropriations are for continuation or completion of work already under way. The appropriations by States were as follows:

| States. | Appropriations. |
|---------------------------|-----------------|
| Alabama..... | \$380,700 |
| Arkansas..... | 71,000 |
| District of Columbia..... | 2,883,685 |
| Florida..... | 157,000 |
| Georgia..... | 229,500 |
| Kentucky..... | 210,000 |
| Louisiana..... | 265,000 |
| Maryland..... | 170,000 |
| Mississippi..... | 185,000 |
| Missouri..... | 554,500 |
| North Carolina..... | 374,500 |
| Oklahoma..... | 445,000 |
| South Carolina..... | 293,500 |
| Tennessee..... | 157,000 |
| Texas..... | 735,000 |
| Virginia..... | 582,000 |
| West Virginia..... | 223,500 |
| Total..... | \$8,436,895 |

The appropriations by separate localities were as follows:

| | |
|--|--|
| Alabama. | |
| Anniston, postoffice, \$320. | |
| Birmingham, postoffice, \$200,000. | |
| Ensley, postoffice, \$35,000. | |
| Eufaula, postoffice, \$25,000. | |
| Florence, postoffice, \$30,000. | |
| Gadsden, postoffice, \$50,000. | |
| Jackson, postoffice, \$7500. | |
| Talladega, postoffice, \$30,000. | |
| Arkansas. | |
| Argenta, postoffice, \$10,000. | |
| Arkadelphia, postoffice, \$5000. | |
| Eureka Springs, postoffice, \$4000. | |
| Fordyce, postoffice, \$5000. | |
| Mena, postoffice, \$5000. | |
| Newport, postoffice, \$12,000. | |
| Paragould, postoffice, \$30,000. | |
| District of Columbia. | |
| Washington, Bureau of Engraving and Printing, \$1,255,685; for designs for buildings for departments of State, Justice and Commerce and Labor, \$130,000; postoffice, \$1,500,000. | |
| Florida. | |
| Bartow, postoffice, \$5000. | |
| De Land, postoffice, \$5000. | |
| Key West, marine hospital, \$40,000. | |
| Miami, postoffice, courthouse and custom-house, \$60,000. | |
| Orlando, postoffice, \$5000. | |
| Palatka, postoffice, \$12,000. | |
| Pensacola, postoffice and courthouse, \$30,000. | |
| Georgia. | |
| Barnesville, postoffice, \$5000. | |
| Cordele, postoffice, \$52,500. | |
| Dublin, postoffice, \$41,000. | |
| Griffin, postoffice, \$10,000. | |
| Lagrange, postoffice, \$30,000. | |
| Milledgeville, postoffice, \$30,000. | |
| Newnan, postoffice, \$7500. | |
| Quitman, postoffice, \$10,000. | |
| Rome, postoffice, \$12,000. | |
| Statesboro, postoffice, \$7500. | |
| Thomasville, postoffice, \$14,000. | |
| Waycross, postoffice, \$10,000. | |
| Kentucky. | |
| Ashland, postoffice, \$8000. | |
| Bowling Green, postoffice and courthouse, \$25,000. | |
| Catlettsburg, postoffice and courthouse, \$20,000. | |
| Fulton, postoffice, \$10,000. | |
| Georgetown, postoffice, \$15,000. | |
| Jackson, postoffice and courthouse, \$20,000. | |
| Lancaster, postoffice, \$5000. | |
| Middlesboro, postoffice, \$12,000. | |
| Louisiana. | |
| Shelbyville, postoffice, \$10,000. | |
| Somersett, postoffice, \$30,000. | |
| Winchester, postoffice, \$55,000. | |
| Mississippi. | |
| Brookhaven, postoffice, \$33,000. | |
| Canton, postoffice, \$10,000. | |
| Clarksdale, postoffice, \$12,000. | |
| Greenwood, postoffice, \$30,000. | |
| Grenada, postoffice, \$10,000. | |
| Holly Springs, postoffice, \$5000. | |
| McComb, postoffice, \$5000. | |
| Tupelo, postoffice, \$10,000. | |
| Vicksburg, postoffice and courthouse, \$40,000. | |
| West Point, postoffice, \$30,000. | |
| Missouri. | |
| De Soto, postoffice, \$12,000. | |
| Excelsior Springs, postoffice, \$12,000. | |
| Fulton, postoffice, \$12,000. | |
| Macon, postoffice, \$3500. | |
| Maryville, postoffice, \$35,000. | |
| Mexico, postoffice, \$40,000. | |
| St. Louis, custom-house, \$40,000; postoffice, \$100,000; treasury, \$300,000. | |
| North Carolina. | |
| Burlington, postoffice, \$10,000. | |
| Charlotte, postoffice and courthouse, \$40,000. | |
| Gastonia, postoffice, \$25,000. | |
| Hendersonville, postoffice, \$14,000. | |
| Lexington, postoffice, \$30,000. | |
| Lumberton, postoffice, \$5000. | |
| Raleigh, postoffice, \$40,000. | |
| Reidsville, postoffice and courthouse, \$25,000. | |
| Rocky Mount, postoffice, \$14,000. | |
| Salisbury, postoffice, \$15,000. | |
| Shelby, postoffice, \$10,000. | |
| Tarboro, postoffice, \$12,000. | |
| Washington, postoffice and courthouse, \$50,000. | |
| Waynesville, postoffice, \$7500. | |
| Wikesboro, postoffice and courthouse, \$12,000. | |
| Wilson, postoffice, \$25,000. | |
| Winston-Salem, postoffice, \$50,000. | |
| Oklahoma. | |
| Ardmore, postoffice and courthouse, \$35,000. | |
| Blackwell, postoffice, \$10,000. | |
| El Reno, postoffice, \$20,000. | |
| Enid, postoffice and courthouse, \$10,000. | |
| Guthrie, postoffice and courthouse, \$40,000. | |
| Muskogee, postoffice and courthouse, \$140,000. | |
| Oklahoma City, postoffice, \$130,000. | |
| South Carolina. | |
| Ableville, postoffice, \$10,000. | |
| Bennettsville, postoffice, \$10,000. | |
| Canden, postoffice, \$13,500. | |
| Columbia, postoffice, \$75,000. | |
| Darlington, postoffice, \$25,000. | |
| Gaffney, postoffice, \$35,000. | |
| Laurens, postoffice, \$25,000. | |
| Marion, postoffice, \$10,000. | |
| Newberry, postoffice, \$35,000. | |
| Orangeburg, postoffice, \$30,000. | |
| Union, postoffice, \$25,000. | |
| Tennessee. | |
| Cookeville, postoffice and courthouse, \$20,000. | |
| Covington, postoffice, \$3000. | |
| Dyersburg, postoffice, \$35,000. | |
| Fayetteville, postoffice, \$10,000. | |
| Humboldt, postoffice, \$5000. | |
| Jellico, postoffice, \$10,000. | |
| Martin, postoffice, \$5000. | |
| Maryville, postoffice, \$10,000. | |
| Murfreesboro, postoffice, \$12,000. | |
| Union City, postoffice, \$30,000. | |
| Winchester, postoffice, \$11,000. | |

Texas.

Atlanta, postoffice, \$500.
Austin, postoffice, \$100,000.
Bay City, postoffice, \$500.
Beeville, postoffice, \$500.
Belton, postoffice, \$500.
Bonham, postoffice, \$20,000.
Bryan, postoffice, \$10,000.
Cleburne, postoffice, \$30,000.
Corpus Christi, postoffice and custom-house, \$10,000.
Del Rio, postoffice and courthouse, \$30,000.
Denison, postoffice, \$40,000.
Eagle Pass, postoffice and custom-house, \$25,000.
El Paso, postoffice, \$60,000.
Ennis, postoffice, \$12,000.
Galveston, appraisers' stores, \$40,000.
Hillsboro, postoffice, \$15,000.
Huntsville, postoffice, \$5000.
Longview, postoffice, \$10,000.
Mineral Wells, postoffice, \$45,000.
Paris, postoffice, \$40,000.
Port Arthur, postoffice and custom-house, \$37,000.
San Angelo, postoffice and courthouse, \$20,000.
Stamford, postoffice, \$10,000.
Uvalde, postoffice, \$1000.
Victoria, postoffice and courthouse, \$80,000.
Waxahachie, postoffice, \$35,000.
Wichita Falls, postoffice, \$25,000.
Yoakum, postoffice, \$5000.

Virginia.

Big Stone Gap, postoffice and courthouse, \$85,000.
Franklin, postoffice, \$5000.
Hampton, postoffice, \$30,000.
Lexington, postoffice, \$50,000.
Pulaski, postoffice, \$5000.
Richmond, postoffice, courthouse and custom-house, \$350,000.
South Boston, postoffice, \$5000.
Suffolk, postoffice, \$45,000.
Warrenton, postoffice, \$12,000.
Waynesboro, postoffice, \$5000.

West Virginia.

Buckhannon, postoffice, \$10,000.
Charleston, postoffice and courthouse, \$50,000.
Huntington, postoffice and courthouse, \$25,000.
Moundsville, postoffice, \$14,000.
Morgantown, postoffice, \$40,000.
Parkersburg, postoffice and courthouse, \$20,000.
Phillippi, postoffice and courthouse, \$8000.
Point Pleasant, postoffice, \$35,000.
Wellsburg, postoffice, \$14,000.
Williamson, postoffice, \$7500.

Reference was had to a number of these items in an act of June 25 last to increase the cost of certain buildings, to authorize the enlargement, extension, remodeling or improvement of others, to authorize the erection and completion of others and to authorize the purchase of sites for others. The provisions in this act for increasing the limit of cost, as follows, included:

Alabama.

Florence, postoffice and courthouse, \$75,000.
Gadsden, postoffice and courthouse, \$85,000.
Talladega, postoffice, \$15,000.

Georgia.

Cordele, postoffice, \$75,500.
Dublin, postoffice, \$8000.
Griffin, postoffice, \$10,000.
Lagrange, postoffice, \$10,000.
Milledgeville, postoffice, \$10,000.
Newnan, postoffice, \$7500.
Rome, postoffice, \$12,000.

Kentucky.

Bowling Green, postoffice and courthouse, \$25,000.
Winchester, postoffice, \$30,000.

Louisiana.

New Orleans, postoffice and courthouse, \$157,000.

Missouri.

Maryville, postoffice, \$25,000.

North Carolina.

Washington, postoffice and courthouse, \$30,000.

Oklahoma.

Oklahoma City, postoffice and courthouse, \$100,000.

South Carolina.

Gaffney, postoffice, \$10,000.
Laurens, postoffice, \$10,000.
Newberry, postoffice, \$10,000.
Orangeburg, postoffice, \$10,000.
Union, postoffice, \$10,000.

Tennessee.

Murfreesboro, postoffice, \$12,000.

Texas.

Denison, postoffice, \$40,000.
Eagle Pass, postoffice and custom-house, \$25,000.
Wichita Falls, postoffice, \$25,000.

Virginia.

Suffolk, postoffice, \$27,000.

West Virginia.

Charleston, postoffice and courthouse, \$100,000.
Morgantown, postoffice, \$35,000.
For enlargement, extension, remodeling or improvement:

Alabama.

Anniston, postoffice, \$3200.

Florida.

Pensacola, postoffice and courthouse, \$100,000.

Mississippi.

Vicksburg, postoffice and courthouse, \$110,000.

Missouri.

St. Louis, custom-house, \$100,000.
Springfield, postoffice and courthouse, \$100,000.

North Carolina.

Reldaville, postoffice and courthouse, \$35,000.

Oklahoma.

Guthrie, postoffice and courthouse, \$125,000.

Texas.

Galveston, appraisers' stores, \$90,000.
Paris, postoffice annex, \$100,000.

For the erection of buildings on ground already owned or authorized to be acquired:

Alabama.

Culman, postoffice, \$50,000.
Opelika, postoffice, \$55,000.

Arkansas.

Searcy, postoffice, \$45,000.

Florida.

Live Oak, postoffice, \$45,000.
St. Petersburg, postoffice, \$55,000.

Georgia.

Bainbridge, postoffice, \$50,000.
Carrollton, postoffice, \$45,000.
Cartersville, postoffice, \$45,000.
Cedartown, postoffice, \$45,000.
Elberton, postoffice, \$45,000.
Tifton, postoffice, \$50,000.

Kentucky.

Bardstown, postoffice and internal revenue, \$60,000.
Cynthiana, postoffice and internal revenue, \$65,000.
Hopkinsville, postoffice, \$65,000.
Lawrenceburg, postoffice and internal revenue, \$50,000.

Mississippi.

Laurel, postoffice, \$60,000.

Missouri.

Boonville, postoffice, \$50,000.
Brookfield, postoffice, \$65,000.
Chillicothe, postoffice, \$65,000.
Marshall, postoffice, \$60,000.
Poplar Bluff, postoffice, \$65,000.
Rolla, postoffice, \$50,000.

North Carolina.

Greenville, postoffice, \$55,000.
Hickory, postoffice, \$60,000.
Monroe, postoffice, \$50,000.
Oxford, postoffice, \$50,000.

Oklahoma.

Chickasha, postoffice and courthouse, \$135,000.
Kingfisher, postoffice, \$45,000.
McAlester, postoffice and courthouse, \$135,000.

Tulsa, postoffice and courthouse, \$135,000.

Tennessee.

Lebanon, postoffice, \$50,000.
Morristown, postoffice, \$70,000.
Pulaski, postoffice, \$50,000.
Shelbyville, postoffice, \$50,000.
Springfield, postoffice and internal revenue, \$45,000.

Texas.

Brownwood, postoffice, \$70,000.
Clarksville, postoffice, \$45,000.
Cuero, postoffice, \$45,000.
Marlin, postoffice, \$45,000.
Marshall, postoffice, \$65,000.
Weatherford, postoffice, \$65,000.

Virginia.

Bedford City, postoffice, \$45,000.
Covington, postoffice, \$45,000.
Wytheville, postoffice, \$60,000.

West Virginia.

Elkins, postoffice, \$85,000.
Grafton, postoffice, \$135,000.
Sistersville, postoffice, \$60,000.

To acquire site and to erect building:

Arkansas.

Eureka Springs, postoffice, \$50,000.
Newport, postoffice, \$55,000.

Florida.

Palatka, postoffice, \$60,000.

Georgia.

Thomasville, postoffice, \$70,000.
Quitman, postoffice, \$50,000.

Kentucky.

Fulton, postoffice, \$50,000.

Georgetown, postoffice, \$60,000.

Jackson, postoffice and courthouse, \$100,000.
Middlesboro, postoffice, \$60,000.

Louisiana.

Jennings, postoffice, \$60,000.
Lafayette, postoffice and internal revenue, \$60,000.

Maryland.

Baltimore, immigrant station, \$130,000.

Mississippi.

Canton, postoffice, \$50,000.
Clarksdale, postoffice, \$60,000.
Grenada, postoffice, \$50,000.
Tupelo, postoffice, \$50,000.

Missouri.

De Soto, postoffice, \$60,000.
Excelsior Springs, postoffice, \$60,000.
Fulton, postoffice, \$60,000.
Webb City, postoffice, \$70,000.

North Carolina.

Hendersonville, postoffice, \$70,000.
Rocky Mount, postoffice, \$70,000.
Tarboro, postoffice, \$60,000.
Wilkesboro, postoffice and courthouse, \$60,000.

Oklahoma.

Ardmore, postoffice and courthouse, \$150,000.
Blackwell, postoffice, \$50,000.
El Reno, postoffice and land office, \$100,000.
Lawton, postoffice and courthouse, \$152,300.

South Carolina.

Bennettsville, postoffice, \$50,000.
Camden, postoffice, \$50,000.

Tennessee.

Cookeville, postoffice and courthouse, \$100,000.
Covington, postoffice, \$45,000.
Fayetteville, postoffice, \$50,000.
Winchester, postoffice, \$55,000.

Texas.

Amarillo, postoffice and courthouse, \$200,000.
Bryan, postoffice, \$50,000.
Ennis, postoffice, \$60,000.
Longview, postoffice, \$50,000.
Uvalde, postoffice, \$50,000.

Virginia.

Hampton, postoffice, \$50,000.

West Virginia.

Moundsville, postoffice, \$65,000.
Wellsburg, postoffice, \$60,000.

For acquisition of site:

Alabama.

Birmingham, postoffice, \$200,000.
Jasper, postoffice, \$7500.

Arkansas.

Argenta, postoffice, \$10,000.
Arkadelphia, postoffice, \$5000.
Fordyce, postoffice, \$5900.
Mena, postoffice, \$5000.

Florida.

Bartow, postoffice, \$5000.
De Land, postoffice, \$5000.
Orlando, postoffice, \$5000.

Georgia.

Barnesville, postoffice, \$5000.
Statesboro, postoffice, \$7500.

Kentucky.

Ashland, postoffice, \$8000.
Lancaster, postoffice, \$5000.
Shelbyville, postoffice, \$10,000.

Louisiana.

Hammond, postoffice, \$5000.

Maryland.

Frederick, postoffice, \$25,000.

Mississippi.

Holly Springs, postoffice, \$5000.
McComb, postoffice, \$5000.

Missouri.

St. Louis, sub-treasury, \$300,000.

North Carolina.

Burlington, postoffice, \$10,000.
Lumberton, postoffice, \$5000.
Shelby, postoffice, \$10,000.
Waynesville, postoffice, \$7500.

South Carolina.

Columbia, postoffice, \$75,000.
Marion, postoffice, \$10,000.

Tennessee.

Humboldt, postoffice, \$5000.
Jellico, postoffice, \$6000.
Martin, postoffice, \$5000.
Maryville, postoffice, \$10,000.

Texas.

Atlanta, postoffice, \$5000.
Bay City, postoffice, \$5000.
Beeville, postoffice, \$5000.
Belton, postoffice, \$5000.
El Paso, postoffice, \$60,000.
Huntsville, postoffice, \$5000.
Stamford, postoffice, \$10,000.
Yoakum, postoffice, \$5000.

Virginia.

Franklin, postoffice, \$5000.
Pulaski, postoffice, \$5000.
South Boston, postoffice, \$5000.
Warrenton, postoffice, \$12,000.
Waynesboro, postoffice, \$5000.

West Virginia.

Buckhannon, postoffice, \$10,000.
Huntington, postoffice and courthouse, \$25,000.
Parkersburg, postoffice and courthouse, \$20,000.
Phillippi, postoffice and courthouse, \$8000.
Williamson, postoffice, \$7500.

Miscellaneous.

Winston-Salem, \$50,000 to begin construction of a fireproof addition to the present Federal building, etc., which is to cost not more than \$250,000.

Charlotte, \$50,000 in contracts authorized for enlargement of postoffice and courthouse not to exceed \$250,000.

Raleigh, \$25,000 in contracts authorized for enlargement of postoffice and courthouse not to exceed \$225,000.

Austin, \$25,000 for postoffice to cost not more than \$210,000.

New Orleans, for site and building for sub-treasury, etc., \$250,000.

Point Pleasant, memorial structure increase from \$10,000 to \$15,000.

Augusta, \$25,000 to begin Federal buildings to cost not more than \$250,000.

Mobile, \$25,000 to begin Federal buildings to cost not more than \$225,000.

Muskogee, increasing expenditure for Federal buildings by \$300,000.

District of Columbia.

Washington, \$200,000 in contracts authorized for postoffice, etc., to cost not more than \$3,000,000; \$200,000 in preparing plans for buildings for the departments of State, Justice and Commerce and Labor to cost not more than \$8,000,000, and for plans for a building for certain bureaus and offices of the Interior Department to cost not more than \$2,500,000. There are also appropriated \$600,000 for the purchase of two tracts of land for public parks, one-half of which amount is to be refunded from the treasury of the District.

Cement for the Canal.

In reference to announcement that the Isthmian Canal Commission has indicated its intention to increase the amount by 15 per cent. of cement contracted for with the Atlas Cement Co., a dispatch to the New York Sun from Allentown, Pa., says:

"The contract provided that the Canal Commission might either increase or decrease the order by 675,000 barrels. It turns out that much more cement will be needed to finish the canal than was originally expected, and the probability is that a large amount will be required over and above the 15 per cent. advance on the 4,500,000 barrels of the order. The Canal Commission has increased its daily order to 6500 barrels, making a trainload of from 40 to 50 cars. The cement is sent to the wharves at Hoboken, where it is loaded on the steamers Cristobal and Colon, each of which can carry 60,000 barrels and makes a round trip a month. To carry the cement in excess of the capacity of these steamers tramp steamers have lately been chartered by the Government."

Boykins' Industries.

Dr. T. B. Henderson, president of the Industrial Association, Boykins, Va., informs the MANUFACTURERS RECORD that a \$25,000 buggy factory company has just been organized there, and that work will begin at once on the necessary buildings. His association is circulating a folder telling of the opportunities for industries at Boykins, which is on the main line of the Seaboard Air Line system, 53 miles from Norfolk.

McSweeney Plant at Sweetwater.

The McSweeney Packing Co. of Sweetwater, Tex., has completed its plant, under construction for some months. About \$150,000 has been invested for brick and concrete buildings and machinery. About 600 head of stock is the daily capacity, and a fertilizer factory is a part of the plant.

In 1910 the Consolidation Coal Co., with headquarters at Baltimore, marketed 9,370,633 tons of coal.

DEVELOP 100,000 HORSE-POWER.**Plants on Virginia Rivers at Ultimate Expenditure of \$12,000,000.**

The MANUFACTURERS RECORD has telegraphic advices that final plans are being formulated for another big water-power-electrical enterprise in the South. This proposition provides for the construction of plants to transmit electricity for lighting and power. It is the project of the Virginia Power Co., heretofore mentioned as planning big water-power developments, which is being managed by J. J. Mott of East Radford, Va., and associates. The company was chartered some time ago, and, in anticipation of beginning development this spring, it increased its capital stock to \$1,000,000 during the past week. The principal features of the developments contemplated are outlined by Mr. Mott, who telegraphs as follows: "Virginia Power Co. controls, on different rivers in Virginia, 100,000 horse-power, of which 30,000 will be developed for local use. Transmission system 500 miles. Development in seven different projects. Final cost \$12,000,000. Development of 10,000 horse-power will be started this spring. Robert A. Schott, chief engineer, Radford, Va."

The Birmingham Iron Market.

[Special Cor. Manufacturers Record.]

Birmingham, Ala., March 20.

The Birmingham district is not lacking in optimism from an industrial standpoint. Shipments of pig-iron are heavy. The decrease in furnace stocks during the month of February was marked, and reports to date indicate that April first will show still further reduction. The rate of production remains about the same. Prices are much firmer, and there is scarcely a weak spot of any kind found anywhere at this time. True, there are no unusually large inquiries before the trade at the beginning of this week, but the call remains steady and constant for small lots. The generally accepted prices are \$11 for No. 2 at Birmingham furnace yards for deliveries before July 1. For the second half of the year no shading below \$11.50 can be located, and many buyers are convinced this figure will be the absolute minimum, with the result that some business is coming right along for that delivery. A careful canvass of the foundries of the South shows but little iron on yards, and practically all consumers in this section are depending upon current shipments from furnace yards to take care of their requirements from week to week.

Shipments of cast-iron water pipe have been very good for some weeks, and makers report stocks still further decreased. There continues a good demand, especially from the Central West. Several municipalities in the South are also considering the placing of tonnages in the near future. Los Angeles has out a large inquiry, and other Pacific coast points have recently been in the market, with the outlook that all such orders will be placed with Alabama foundries. There is no doubt but that prices are firmer, and that it is more and more difficult each day to obtain any concessions that might have been secured three or four weeks since. The foundries of the Birmingham district are running at about the same rate as for the past three months. It is doubtful if there will be any further material increase soon. Prices per net ton on board cars here are as follows: Four to six-inch \$22; 8 to 12-inch, \$20; over 12-inch, average \$19. These are the figures for water pipe, fully guaranteed. Gaspipe takes a still higher figure of \$1 per ton.

Some of the scrap-iron dealers report a better movement, but without noticeable

change in prices. There is a tendency to rather let this line drift for a bit. No large tonnages have been recently turned loose on the Southern market by the railroads or others. Consumption has changed but little. Stocks on dealers' yards are slightly less. All told, the outlook appears brighter. Chattanooga has been taking a fair tonnage from this market, with a prospect of continuance. Dealers' prices per gross ton on board cars here remain as follows:

Old iron axles, \$14 to \$14.50.
Old iron rails, \$12 to \$12.50.
Old steel axles, \$14 to \$14.50.
No. 1 railroad wrought, \$12 to \$12.50.
No. 2 railroad wrought, \$9 to \$9.50.
No. 1 country, \$7.50 to \$8.
No. 2 country, \$7 to \$7.50.
No. 1 machinery, \$9.50 to \$10.
No. 1 steel, \$10 to \$10.50.
Tram car wheels, \$9 to \$9.50.
Standard car wheels, \$10 to \$10.50.
Light cast and stove plate, \$8 to \$8.50.

A \$500,000 Sugar Refinery.

[Special Cor. Manufacturers Record.]

New Orleans, La., March 20.

Oxnard & Sprague Company have closed the main contracts for a central refinery to be constructed on the Adeline Plantation at Adeline, near New Orleans, to cost approximately \$500,000. It will be the most modern, up-to-date sugar refinery in the United States, if not in the world. The Honolulu Iron Works, Honolulu, Hawaii, are the engineers and architects. The contract for the mill and crusher has been let to E. A. Sammons & Co. of New Orleans. It includes a 12-roller mill and crusher to cost \$103,000. The equipment will be furnished by the Fulton Iron Works of St. Louis. The buildings for the refinery will cost, all told, something more than \$60,000, which contract has been let to the Virginia Bridge & Iron Co. of Roanoke. The Walburn-Swenson Company gets the contract for the evaporators at a cost of \$26,000. Bids have been opened but contracts not yet awarded for the centrifugal machines, to cost about \$13,000, and the boilers, which will cost something over \$20,000. A significant fact in connection with this enterprise is that the Adeline Plantation has recently been sold by the Oxnard interests to a number of Northern and Western farmers, who will on small tracts, instead of in the plantation manner, raise sugar-cane to be manufactured at the refinery herewith described.

Without question this is one of the most significant developments that has ever occurred in Louisiana. It means the beginning of a new system of sugar planting by which the long-established big plantation will give place to groups of small farmers who will raise sugar-cane simply as one of the crops in general agricultural operations. It means the advent in Louisiana of thousands of energetic well-to-do farmers from other sections of the country, who will provide a purchasing capacity as owners of the lands of Louisiana, and is entirely revolutionary in character. Hitherto the big sugar plantations have been manned by negro helpers, who live in cottages in the "quarters" on the plantations, and replacing this class of people with white farmers will mean a development of the agricultural resources of Louisiana, so altogether more beneficial to every feature of civilization in this section of the South as to make the consequences wholly incalculable.

ALBERT PHENIX.

It was announced at Columbia last week that the Columbia & Atlantic Railway & Steamship Co. is planning to place in operation three steel barges between Columbia and Georgetown and Charleston.

Sugar.

In 1909 the value of products of establishments engaged in the manufacture of sugar from cane and beets in this country aggregated \$77,473,000, of which \$48,122,000 represented beet products and \$29,351,000 cane products. Of the latter, \$28,703,000 were the value of cane products in Louisiana and \$648,000 of cane products in Texas, they being the only two States in cane sugar production covered in the preliminary statement of the Census Bureau, although, as the statement points out, small quantities of cane sugar not considered were produced on farms in Louisiana and Texas, as well as in other States. Of the total products of the cane treated, amounting to 4,628,200 tons, costing \$17,605,000, there were produced 334,100 tons of sugar, of which 3700 tons were brown sugar from the open kettle process and 330,400 tons vacuum sugar, valued in all at \$26,686,000; 25,280,600 gallons of molasses, valued at \$2,889,000, and 1,449,900 gallons of syrup, valued at \$366,000.

Beets for sugar were treated in 17 States, California, Colorado and Michigan, however, yielding to the value of \$36,187,000, or 75 per cent. of the total value, \$48,122,000, in the country. The beets, amounting to 3,965,300 tons from 416,000 acres, yielded 496,800 tons of granulated sugar, 4900 tons of raw sugar and 20,812,800 gallons of molasses.

Cane sugar production in this country increased from 89,400 tons in 1879 to 334,100 tons in 1909, and beet sugar production from 1400 tons to 501,700 tons in the same period, while the imports of sugar increased from 914,600 tons to 2,887,100 tons. Exports of sugar increased between 1879 and 1909 from 20,300 tons to 94,600 tons, so that 3,628,300 tons were retained in 1909 for consumption in this country.

Yadkin River Power Co.

The Yadkin River Power Co. of Rockingham, N. C., has been chartered with a capital stock of \$4,000,000, and Charles E. Johnson of Raleigh as president. Mr. Johnson is president of the Carolina Power & Light Co., and he telegraphs the MANUFACTURERS RECORD that the chartering of the new company is a preliminary step toward the completion of the Rockingham Power Co.'s water-power electrical plant at Blawett Falls, near Rockingham. E. Clifford Potter, treasurer of the Colonial Securities Co., 50 State street, Boston, purchased the Rockingham property last year, and he advised the MANUFACTURERS RECORD last week that the reorganization plan is progressing. This plant is designed to develop 30,000 horse-power for transmission by electricity, and a telegram to the MANUFACTURERS RECORD states that the Phoenix Construction Co. has been chartered to build 100 miles of transmission lines for the plant.

Rolling Mill at Houston.

The United Iron & Steel Co. of Houston has plans for the construction of its plant announced sometime ago. Referring to the enterprise, a correspondent of the MANUFACTURERS RECORD recently wrote, in part, as follows: "The company has been organized with a capital stock of \$150,000, and is composed of Northern and local capitalists, the president being I. N. Willard of Utica, N. Y.; the secretary and treasurer, J. B. Hine of Syracuse, N. Y., and the other directors, J. W. Barnes of Pittsburg and N. L. Mills of Houston."

"The company has bought 20 acres of land with a front of 600 feet on the channel. Its main building will be frame, with steel shed, covering 60x200 feet, with two 25-foot additions for boiler and en-

gine-house. There will be several small buildings in addition. The plant will have 80 tons a day capacity. It will convert old steel rails and other scrap iron and steel material into rounds, flats, squares, angles, reinforced-concrete bar and other sections, and merchant iron and steel.

"The company has purchased a tract of ore land in Cherokee county, Texas, carrying more than 6,000,000 tons of red hematite ore, but this ore supply will be held in reserve for future uses, the supply of scrap being regarded as permanently ample."

To Briquette Texas Lignite.

Texas lignite will be briquetted for fuel purposes by the American Briquetting Co., which has been organized at Dayton, O., with a capital stock of \$1,250,000. This company is headed by B. H. Rannells of New Carlisle, O., and intends to build briquetting plants in Texas, North and South Dakota, Colorado, Arizona and Canada. It is contemplated to use the machinery which A. D. Fernholz of St. Louis has invented for pulverizing, treating and compressing lignite so that it can be sold at the mines for about \$1.50 per ton. It is claimed lignite briquettes will burn free from soot and smoke.

To Manufacture Smoke Consumers.

A smoke consumer will be manufactured at Knoxville. It is stated to be arranged for placing in any boiler without necessitating a change of the boiler, and to be very effective for the purpose for which it is designed. This device will be manufactured by the Knoxville Smoke Consumer Co., which will be chartered with a capital stock of \$25,000 by T. I. Stephenson, W. P. Davis, O. A. Brown, S. H. Sparks and L. M. G. Baker. Mr. Stephenson, president of the Knoxville Iron Co., will be president and treasurer of the new company.

Southern Lumber Dealers.

The Southern Retail Lumber Dealers' Association, in session at Memphis last week, elected the following officers: W. K. Hall, Fulton, Ky., president; H. E. Ray, Corinth, Miss., vice-president; V. R. Smith, Memphis, secretary, and H. C. Canaday, Mayfield, Ky.; W. T. Ingram, Trenton, Tenn.; C. B. Bowden, Martin, Tenn.; A. W. Nelson, Birmingham, Ala., and S. B. Enoch, Jackson, Tenn., directors.

A feature of the meeting of the Southern and Southwestern Railway Club at Macon last week was a visit to the new Central of Georgia Railway shops. The officers of the club, which is composed of representatives of the technical and mechanical departments of the railroads, are A. J. Poole, superintendent of motive power of the Seaboard Air Line Railroad at Portsmouth, Va., president; J. F. Emerson, assistant master mechanic of the Georgia Railroad at Macon, first vice-president; C. H. Rae, general master mechanic of the Louisville & Nashville Railroad at Louisville, Ky., second vice-president; W. H. Dooley, superintendent of motive power of the Queen & Crescent Railroad at Ludlow, Ky., third vice-president; A. J. Merrill of Atlanta, secretary, and Horace Parker of the same city, treasurer.

A party of 25 farmers from Illinois, Iowa and Nebraska bought last week 1000 acres of land in Ascension parish, Louisiana, for \$65,000.

For export to France 5000 tons of phosphate rock were shipped last week from Mt. Pleasant, Tenn.

\$2,500,000 for Highways.

As is evidenced each week in this column and in the Construction Department (see "Road and Street Work") of the MANUFACTURERS RECORD, there are few Southern cities and towns not interested in improved streets and sidewalks, while numerous counties are undertaking road improvements. Besides many other previous announcements, it is of interest to call special attention to Memphis as one of the cities planning extensive street paving during 1911. This city's commissioners have announced improvements for the next 12 months to cost nearly \$2,000,000. Their estimates provide for improving 36 miles of streets with asphalt, wood block, tar-macadam, gravel and stone.

Another important proposition is that of Hamilton county, Tennessee, which is preparing to issue \$500,000 of bonds recently authorized for road construction. E. E. Betts has been elected engineer in charge of the Hamilton County Roads Commission.

Other important work recently announced is 30 miles of sand-clay roads for the grading and surfacing of which, with drain pipes and concrete culverts, sealed bids are to be opened on April 4 by the Commissioners of Elmore county at Wetumpka, Ala. Plans are on file in the courthouse at Wetumpka and in the office of the engineer in charge, the Solomon-Norcross Company, 1622 Candler Building, Atlanta. About 200 miles of additional work will be arranged for at a later date.

In addition to this, G. R. Thomas, county engineer, Selma, Ala., has plans and specifications on view for grading and graveling 11¼ miles of road in Dallas county, bids to be received until April 3.

Another important work is for Hind county, Mississippi, which will build 21 miles of gravel road. Bids for construction were opened on March 9 by Mayes Cooper, the engineer in charge, Jackson, Miss.

Mobile Pier and Warehouses.

The New Orleans, Mobile & Chicago Railroad Co., W. F. Owen, general manager, Mobile, Ala., has tentative plans for the construction of its pier and warehouse facilities. It proposes to build a pier 1200 feet long and from 175 to 200 feet wide, of fireproof construction, with steel warehouses and sheds. This pier will extend from Choctaw Point to deep water. Two tracks will extend on both sides of the wharf, and there will be facilities for loading and unloading vessels. The river alongside of the docks will be dredged to a depth of 27 feet, which is the depth of the proposed ship channel. Construction details have not as yet been determined.

The Chemists' Building, in New York city, of which the Chemists' Club is the chief tenant, was formally opened last week. The program included addresses by Dr. Edward S. Morley, Prof. Alexander Smith, Prof. William H. Walker, Prof. Wilder D. Bancroft, Prof. Frank W. Clarke, Dr. Charles Baskerville, Prof. R. B. Moore, Prof. Jacques Loeb, Mr. E. A. Sperry, Dr. W. R. Whitney, Dr. Charles F. McKenna, Prof. William P. Mason and Prof. Charles F. Chandler.

The Central of Georgia Railway has decided to offer a cash prize of \$25 to the boys in each of the 78 counties in Georgia and Alabama traversed by it for the best results from the cultivation of one acre of corn.

The Jackson Fertilizer Co. of Jackson, Miss., is circulating a booklet giving some valuable information about peanuts.

GOOD ROADS

To Build 540 Miles of Road in Two Days.

By CHARLES C. GILBERT, Secretary Memphis-to-Bristol Highway Association.

[Written for the Manufacturers Record.]

For years the States of the South have suffered untold and multiplied losses on account of inadequate road facilities and the immense cost of marketing the yields of their land. The early settlers felled the trees through the primeval forests, and generation after generation have used the same crooked roads, climbing hills, fording streams and hauled a "half a load" down to the present time.

Political parties have vied with each other as to making good-road promises—some of them were gems—only to continue in the same ruts their forefathers left them, operating under the "serving-out system," which was inaugurated in the Elizabethan age and handed down from generation to generation.

A new Richmond entered the field in the person of a young, vigorous, active business attorney, who was a nominee of a minority party, but on account of these sterling qualities, which oftentimes make men famous, he was elected Governor of the Volunteer State. Even before his inauguration, and while making a study of Tennessee's greatest needs, he readily found that the thing which would benefit the most people and yield to the State the greatest income would be to improve her road system. He took up the suggestion of building a road the length of the State, from Memphis on the west to Bristol on the east, a distance of about 540 miles, and said if other States could accomplish great things in the way of building a road in one day, of course, Tennessee could do the same.

The Memphis-to-Bristol Highway Association was organized, prominent business men elected as its officers, and the work of organizing the various counties along the proposed road began. Up to the present time a Memphis-to-Bristol Highway Association has been formed in 38 counties, and something over 15,000 men have signed up for two days' work on the road.

In addition, nearly \$50,000 has been subscribed in these various counties for the purpose of buying bridge and culvert material, lumber, nails, signboards, road machines and various other things needed to carry this project to a successful completion.

At the headquarters of the association a large office force is busy sending bulletins, blanks, writing personal letters, supplying the various newspapers with readable "dope" and carrying on a campaign which would make some of our political campaigns sit up and take notice.

The various county organizations will have charge of the work in their particular counties. An overseer has been selected for each mile in every county, some 1000 selected already. These overseers have selected an assistant for every 300 yards. A blueprint has been made of the route, and by the morning of August 14 these one-mile overseers will have all the necessary material at convenient places ready for the start. The necessary men to do the work will be notified by personal letters to report at a certain place in that mile on the mornings of August 14 and 15 to do a certain kind of work. If he is to haul he will have his team with him; if he is to plow the road, the necessary plow, or if he is to use the pick and shovel he will be provided for, and between the suns on those days at least 25,000 enthusiastic

Tennesseans will shovel dirt as they have never done before.

The ladies in the neighborhood will furnish dinner for the men who toil, and the small boys will find occupation in carrying water.

Could an organization be more perfect, could a project be more commendable, could a movement yield greater returns to the State than the building of this great State road within these two days?

Nashville, Tenn.

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street Improvement.

[Full details of highway undertakings are given in the Construction Department.]

Bonds Voted.

Brownsville, Tex.—City voted \$80,000 of bonds for street paving.

Bonds to Be Voted.

Alexandria, La.—Rapides Parish Police Jury contemplates an election to vote on issuing \$200,000 of bonds for road improvements.

Brookville, Fla.—Town will vote on issuing \$2000 of bonds to construct side walks and \$7000 to pave streets.

Carthage, N. C.—Moore county votes April 4 on issuing \$100,000 of bonds for road construction.

Paris, Tex.—Lamar county precinct No. 1 will vote April 22 on bond issue of \$300,000 for road construction.

Contracts Awarded.

Aspermont, Tex.—Stonewall county awarded contract for constructing six miles of road.

Baumont, Tex.—Jefferson county awarded contract to grade a 20-foot road about four miles.

Bradentown, Fla.—Manatee County Commissioners awarded contract for construction of about seven miles of road.

Dallas, Tex.—City awarded contract at about \$75,000 for rock asphalt paving.

Dallas, Tex.—City awarded contract at about \$60,000 for bitulithic paving.

Little Rock, Ark.—City awarded contract for creosoted block paving; also awarded contract for asphalt paving to cost \$15,000.

Jacksonville, Fla.—City awarded contract for grading, paving and curbing.

Menard, Tex.—Menard county awarded contract for road improvements, for which \$300,000 has been appropriated.

Newbern, N. C.—City awarded contract at about \$50,000 for furnishing material and laying 30,000 square yards of vitrified brick paving.

Oklahoma City, Okla.—City awarded contract at about \$147,000 for street paving and another contract at about \$499,000 for street paving.

Selma, Ala.—Dallas county awarded contract at \$12,000 to construct 6¾ miles of road.

Stamford, Tex.—City awarded contract for paving four blocks with composition.

Waco, Tex.—A. W. Koch & Co. awarded contract for sidewalks and curbs, and will open bids for other similar work, about \$30,000 to be expended on sidewalks and curbs and about \$20,000 on paving.

Contracts to Be Awarded.

Atlanta, Ga.—City receives bids until April 3 for about 8250 square yards of creosoted wood block paving.

Cookeville, Tenn.—Putnam county will award contract April 10 for road construction costing about \$100,000.

Dallas, Tex.—City receives bids until March 24 for paving three avenues and three streets.

Dallas, Tex.—City receives bids until March 29 for paving two streets.

Easton, Md.—Talbot and Caroline counties invites bids until April 3 for grading and macadamizing 83 miles of road, constructing 70-foot steel draw-bridge, etc.

Farmville, Va.—Town Council ordered repaving of Main street at an estimated cost of \$14,300.

Fort Worth, Tex.—City receives bids until March 28 for about 6,710,000 square yards of street improving.

Hugo, Okla.—City will let contract March 29 for 30 blocks of asphalt paving.

Jacksonville, Fla.—Jacksonville Electric Co. will expend about \$824,000 for street improvements.

Jasper, Fla.—Hamilton county receives bids April 3 for grading 30 miles of road.

Knoxville, Tenn.—City receives bids until April 5 for paving, curbing and grading on two streets.

Knoxville, Tenn.—City receives bids until April 5 for paving, curbing and grading two streets.

Louisville, Ky.—City receives bids until March 27 for 14,600 square yards of vitrified block paving.

Mellville, La.—Town opens bids March 27 for laying eight blocks of concrete sidewalks.

Memphis, Tenn.—City plans expenditure of nearly \$2,000,000 for paving during next 12 months; about 36 miles of streets to be improved.

Meridian, Miss.—Lauderdale county receives bids until April 4 for constructing 18¾ miles of road, culverts, etc.

Meridian, Miss.—Lauderdale county opens bids April 4 for constructing road.

Selma, Ala.—Dallas county receives bids until April 3 for grading and graveling 11¼ miles of road.

Troy, Ala.—City has adopted plans for paving on two streets.

Washington, Va.—State Highway Commission receives bids until March 29 for constructing 7½ miles of macadam road.

It is announced that the Schell Canal at Washington, La., will be opened on April 8, and that 25 miles of the main canal and principal laterals will be ready to irrigate this season between 5000 and 10,000 acres of rice. One week later the construction of 25 miles of canal, connecting the Vermilion and Abbeville irrigating systems in Vermilion parish, will be completed.

The January number of the Journal of the American Society of Engineering Contractors, whose headquarters are in New York city, contains a full list of the members of the organization, its constitution and a number of technical papers discussed at recent meetings.

Mr. Walter A. Post has been elected president of the Newport News Shipbuilding & Drydock Co. to succeed the late Calvin B. Orent, and will continue his duties as general manager of the company.

The Virginia Cannery Association has elected J. Lucien Moomaw of Cloverdale, president; W. C. Smiley of Coyner's Springs, vice-president, and I. B. Layman of Daleville, secretary and treasurer.

Under the auspices of the Southern Rice Growers' Association shipment has been made through Houston, Tex., of 750,000 pounds of rice to Mexico and other foreign ports.

RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

PIEDMONT ELECTRIC ROAD.

Large Contract Let to W. J. Oliver, and Work Is Being Pushed.

Rapid progress is being made by J. B. and B. N. Duke and their associates in the plans to build a great interurban electric railroad in the Carolinas. During the past week a contract was let to Wm. J. Oliver & Co. of Knoxville, Tenn., to construct about 95 miles of line from Greenwood to Spartanburg, S. C., via Anderson and Greenville, this being in addition to the contract recently awarded to Stewart & Jones of Baltimore between Charlotte and Kings Mountain, N. C., 34 miles. All this work is to be actively pushed, and it is probable that a great amount of construction will be accomplished this year. The roadbed between Greenwood and Belton, near Anderson, is to be finished within six months, that between Belton and Greenville in eight months and the entire line on to Spartanburg in fifteen months. Mr. Oliver's contract covers the grading, masonry and trestles. Permanent location of the line has been made between Greenwood and Greenville, the route being via Hodges, Donalds, Honea Path, Belton, Williamston, Pelzer, Piedmont and Gantt. The route between Greenville and Spartanburg is not definitely decided. Two lines are under consideration, one via Greer and other via Reidville.

R. E. Oliver, representing the contracting firm, is quoted as saying that 10 steam shovels and 500 teams will be put on the work just as soon as they can be assembled and distributed over the route. The number of men to be employed is indefinite, but will be large. The forces will be put at work immediately between Greenwood and Greenville, while beyond to Spartanburg others will start construction as soon as the route is definitely determined. The completion of this section will leave to be built a link of about 40 miles between Spartanburg and Kings Mountain. It is expected that steps will soon be taken to award contract for this, and when completed, with the rest of the road here described, there will be an electric railway 165 or 170 miles long extending from Charlotte, N. C., via Gastonia and Kings Mountain, N. C., to Spartanburg, Greenville, Belton (Anderson) and Greenwood, S. C.

Construction has begun on the line between Charlotte and Kings Mountain, and the contractors there have 120 working days within which to complete that part of the road. The railroad company is also taking steps toward building terminals at Charlotte, purchasing property for depots and yards and otherwise preparing local facilities for handling the traffic pledged. It is estimated that between \$4,000,000 and \$5,000,000 will be spent on those parts of the route for which contracts have been let. Of the total, the first contract let is estimated at about \$400,000, and that in South Carolina from \$900,000 to \$1,000,000. The rest of the money will go for finishing up, providing equipment, terminals, etc.

GALVESTON-HOUSTON LINE.

Interurban Track Laid and Work Proceeding to Early Completion.

The Galveston-Houston Interurban Railway Co., according to a report from Houston, Tex., has practically completed tracklaying between the two cities, and the work of ballasting the line with shell is under way. It is anticipated that the

road will be ready for operation some time before the causeway over Galveston Bay is completed. The power-house at Webster is approaching completion, and the machinery is being received. Construction is also under way on the power stations at South Houston and La Marque.

A description of this line shows that it is unique in some respects. For 36 miles it is absolutely straight, and there are only six curves between the two cities. The land traversed is nearly all prairie, only two miles of clearing having to be done. The route is practically level. The new line will be single track, but the right of way is about 100 feet wide, and a second track may be built when necessary. The route is 45 miles long between the two cities, but the tracks inside the city limits make the total 50 miles. The overhead work is of the catenary type. The Stone & Webster Engineering Corporation of Boston is building the road.

In leaving Houston the line crosses a trestle built of reinforced concrete over the tracks of the Gulf, Colorado & Santa Fe Railway. This structure is about 2000 feet long. To enter Galveston the road will use the Galveston causeway, which is nearly two miles long, and which will cost \$1,500,000. Much of this causeway is built of reinforced concrete, with a steel Scherzer lift bridge in the middle. That part of the causeway built of concrete is about 2350 feet long, and the portion which is filled in is nearly 8200 feet. The railway track is laid with 80-pound rails on cypress ties. Some pine ties treated with preservatives are also being used.

The company has ordered 12 motor cars from the Cincinnati (O.) Car Co., 10 of them for passengers and two for express business. They are each 52 feet long, with a seating capacity of 54 people, including a smoking compartment for 24. A car weighs about 36 tons. It is said that the running time between terminals will be about 80 minutes, and cars will be operated every hour, with half-hourly service occasionally. About seven stations will be established between the cities. The general direction of the line is from northwest to southeast.

WILL SPEND \$825,000.

New Power-House for Jacksonville Electric Co., Besides Other Work.

The Jacksonville Electric Co., Jacksonville, Fla., it is announced, will spend this year for new construction and improvements about \$825,000, the most important item of which is a new power station that will cost about \$325,000. The work will be done by the Stone & Webster Engineering Corporation of Boston, represented by Arthur I. Negus, superintendent of construction. The power-house will be erected on Riverside avenue on a tract of land recently acquired from the Russell estate. It will be of steel, concrete and brick, and it is expected that work on the foundation will be started within two weeks. The company is also to build piers for handling coal and other materials in connection with the power-house. There will be a depth of 22 feet of water at the wharves. It is proposed to make the surroundings of the power-house attractive.

The company will furthermore buy 10 new cars, and will make an addition to the Riverside car barn. Second track will be built on some of the important lines. The work will be started soon on Oak street, between Copeland and King streets. Other double-tracking contemplated is on Church street, between Georgia and Parker streets; also on Highway avenue from Palm street to the city limits. Some track rebuilding and paving is also proposed. The manager of the railway company is Hardy Croom.

An official letter says that the Stone &

Webster Engineering Corporation has decided the type of construction for the new power station thus: "The building will be of steel frame and brick, and the stack of reinforced concrete. The principal power equipment will be two 1800-kilowatt maximum rated General Electric direct current generators, coupled, respectively, to two 2400-horse-power cross-compound engines to be built by the Nordberg Manufacturing Co. There will be three 600-horse-power boilers from the Edge Moor Iron Works. The condensers will be of the barometric column type, and will be supplied by the Mesta Machine Co. The principal coal-handling apparatus will be a 17-ton Industrial Iron Works locomotive crane."

TAMPA TO MIAMI.

Preparations in Progress to Build the Atlantic, Okeechobee & Gulf Railroad.

The Atlantic, Okeechobee & Gulf Railway Co., says a report from Jacksonville, Fla., has accepted through its executive committee the charter for its proposed line, and the committee will immediately proceed to determine the route exactly and take steps for a survey. It is stated that the enterprise is provided with sufficient capital to carry it through.

The headquarters of the road are to be in Tampa, Fla., and the main line will run from there through Hillsboro, Polk, De Soto, Lee, Palm Beach and Dade counties to a point near Miami, Fla., with a branch from Melbourne through Brevard, St. Lucie, Okeechobee, De Soto and Lee counties to Fort Myers, besides another branch from the latter point through Lee, De Soto, Manatee and Hillsboro counties back to Tampa. There will also be a branch from Bassinger to St. Cloud. The capital stock is \$1,000,000.

One of the parties interested is quoted as saying that the new road will open up a section of Florida now unknown to the great majority of people in this country, and will develop a great lake district in Polk and De Soto counties. It will also develop a region that is peculiarly adapted to agriculture and fruit-raising, and will furthermore traverse some large tracts of timber, none of which has been cut. It is proposed to begin construction as soon as possible.

Henry Clay Ferriot is president and Robert H. Riley first vice-president, both of New Orleans; Walter Graham, second vice-president; A. H. West, third vice-president; Daniel A. Simmons, secretary, all of Jacksonville; W. H. Milton, treasurer, Marianna, Fla. F. B. McGarry is general counsel.

LOREE IS CONFIDENT.

Kansas City Southern to Expend \$5,000,000 for Improvements.

Chairman L. F. Loree of the Kansas City Southern Railroad, who has just made a trip over the line, accompanied by President J. A. Edson, is reported as saying upon his return to Kansas City that although railroad receipts have fallen off a little on most lines, that has not deterred the company from definitely arranging to spend \$5,000,000 on improvements upon the Kansas City Southern. The money is in bank, and the improvement will begin immediately.

B. & O. IMPROVEMENTS.

Either a New Tunnel or a Long Open Cut at Sand Patch.

Concerning the proposed improvements at Sand Patch, west of Cumberland, on the Pittsburg division of the Baltimore & Ohio Railroad, the following information from an official source is interesting:

The present tunnel at Sand Patch is

single-track, 4777 feet long, on a 1 per cent. grade rising in westbound, with the summit of the grade at Sand Patch, a station just west of the west portal of the tunnel. This tunnel is between Manilla and Sand Patch. Two propositions are being considered for enlarging facilities at this point.

First, a double-track tunnel to be built on a line lying north of the present tunnel, with a total length of 4000 feet. The new line will join the present one in the vicinity of Manilla on the east and Sand Patch on the west, and the present tunnel will continue to be utilized, thus affording practically a three-track line between these points.

Second, excavating a three-track open cut through the same ridge on a line lying parallel to and just south of the present line. This cut will be approximately 5000 feet long, and at the highest point 190 feet deep. It will provide three tracks, and the new line will join the present one near Manilla and Sand Patch, respectively. The excavated roadbed will be 54 feet wide in cuts and 48 feet wide on fills.

It is expected now to submit both propositions to the contractors and have proposals opened about April 1.

F. L. Stuart, Baltimore, is the chief engineer.

New Equipment, Rails, Etc.

The Western Maryland Railway has ordered five Pacific locomotives from the Baldwin works, Philadelphia, besides 15 vestibuled passenger cars, 2 combination cars, 2 baggage cars and 4 mail and express cars from the Barney & Smith Company, Dayton, Ohio.

The Burrs Ferry, Brownell & Chester Railway, Rockland, Tex., is reported in the market for a steel bridge 100 feet long.

The Denton (Tex.) Traction Co. is reported about to purchase two cars.

The Ocala Northern Railroad, Ocala, Fla., says a dispatch, has ordered 3000 tons of rails from the Carnegie Steel Co., Pittsburgh, Pa.

The Oklahoma Railway, Oklahoma City, Okla., will, it is reported, purchase through J. G. White & Co., New York, 10 steel cars with center entrance.

The Vicksburg, Shreveport & Pacific Railway, says a market report, has ordered 1500 tons of open-hearth steel rails from the Ensley mill of the Tennessee Coal, Iron & Railroad Co.

The Frisco is reported about to buy 11 postal cars.

A report that the Rock Island system was in the market for 1450 freight cars is denied.

The Florida Railway, Live Oak, Fla., is in the market for equipment of all kinds.

The Kansas City Southern, says a report, will purchase 125 ballast cars, 2 steam shovels, a ditcher, a wrecking crane and a pile driver.

The Carolina Power & Light Co., Raleigh, N. C., it is reported, has purchased five open car bodies from the J. G. Brill Company, Philadelphia.

The Pennsylvania lines West may, it is said, purchase several locomotives.

The Warner & Webber Falls Railway, Webber Falls, Okla., is reported to have purchased second-hand equipment thus: One 45-ton locomotive, one passenger car and several freight cars. Other equipment may be bought.

The San Antonio & Aransas Pass Railway is reported getting prices on freight cars, box and stock.

New Orleans, Mobile & Chicago.

The contract recently let at Mobile to the Jett Bros. Construction Co. for the

new passenger and freight station of the New Orleans, Mobile & Chicago Railroad provides for a building to occupy one-half the block bounded by Royal, St. Emanuel, Augusta and Charleston streets in the southeastern part of the city and running parallel with Royal street. It will be fireproof, with concrete foundation, brick walls and either slate or tile roof. Steam heat and electric lighting will be used. The waiting-room will be 30x40 feet; the baggage-room, 20x40, and the warehouse 206x42 feet. On the second floor the offices will be 40x50 feet. An umbrella shed will be used for trains, with a concrete platform 20 feet wide and 320 feet long. Double tracks about two miles long will be built to the new depot. Three or four miles of yard tracks will also be constructed. Work is to start immediately.

The railroad is actively proceeding toward extending its line from Middleton, Tenn., to Jackson in the same State. It is estimated that this will cost about \$700,000, and the citizens of Mobile, it is said, have subscribed \$250,000 toward the work. At Jackson the road has asked a subscription of \$100,000. This proposed line will be part of the company's contemplated extension to the Ohio River.

Valdosta to Jacksonville.

Dispatches from Valdosta, Ga., say that survey is being made for a new railroad which will connect that city with Jacksonville via Live Oak, Fla. Although no names are mentioned in the telegrams, it is said that the men backing the plan have the capital necessary to build the road, and that they expect to make a first-class line. The engineers engaged on the survey will very soon complete the running of a line into Valdosta, as they are only a few miles from that place. It is understood that it has been decided to begin construction.

It is interesting to note in connection with this report that the Florida Railway Co., of which Frank Drew of Live Oak is president, is building a railroad between Live Oak, Jacksonville and Fernandina, 110 miles, and that the grading is nearly completed. The Florida Realty & Construction Co. of Jacksonville is the contractor. Presumably any new line built between Live Oak and Valdosta would connect with the Florida Railway and use its route to Jacksonville rather than build an entirely new road, and while no announcement has been made to show any connection of Mr. Drew and his associates with the Valdosta project, it would not seem improbable that they are interested therein.

Pennsylvania Line's Pensions.

The stockholders of the Pennsylvania Railroad Co. at their recent annual meeting added \$200,000 to the annual appropriation for employees' pensions. This, with increases to be made this year by other lines of the company, will make the amount set aside annually for pension allowances for employees of the Pennsylvania Railroad east of Pittsburg and Erie more than \$850,000. The pension department of the road during 1910 disbursed \$660,687.24; of this, \$5976.90 represented operating expenses, all of which were paid by the railroad. The number of employees entitled to pensions on January 1, 1910, was 2320, and on December 31 the number was 2505. During the 11 years in which the pension system has been operating the total payments on the entire Pennsylvania system have amounted to nearly \$6,500,000.

A Book About Railroad Earnings.

A new edition of "The Earning Power of Railroads," by Floyd W. Mundy, a member of the firm of James H. Oliphant

& Co., bankers and brokers, has just been issued from Moody's Magazine Book Department, 35 Nassau street, New York. It is a book of value to investors and others interested in railroad securities, and presents important facts regarding 150 of the principal railroads of the United States and Canada. The introductory and preliminary chapters instruct the reader concerning the analyzing of railroad statements and reports, so that one may intelligently set about a determination of the value of securities. There are numerous statistics and much detailed information concerning the various roads described in the almost 500 pages which compose the volume, which is well printed and is bound in cloth.

Mallet Engines for the B. & O.

The Baltimore & Ohio Railroad Co. has been notified that five of the largest locomotives ever constructed, of the Mallet articulated compound type, have been completed and have left the shops at Schenectady, N. Y., en route to Baltimore for delivery, all ready to be placed in service. Ten of these huge locomotives were contracted for by the company several months ago, the present instalment being the first delivery under the contract. The weight of each of the new engines is 461,000 pounds, and the tender weighs 181,000 pounds, making the combined weight of the engine and tender 642,000 pounds. These locomotives will be placed in service on freight trains over the mountain divisions of the railroad.

Henderson Interurban.

Charles T. W. Argue, an officer and director of the Henderson Interurban Company, Henderson, Ky., writes that it is proposed to build about 90 miles of line from Henderson to Dixon, Ky., and other points. H. U. Wallace is the engineer. The route lies through fairly level country. Connections would be made with the Louisville & Nashville, the Illinois Central, the Louisville, Henderson & St. Louis and the St. Louis & Ohio River railroads. The directors are: President, Malcolm Yeaman, Henderson, Ky.; vice-president and general manager, E. F. Wheaton, Nashville, Tenn.; secretary and treasurer, T. W. Argue, Henderson, Ky.; W. W. Cooper, Smith Mills, Ky.; B. G. Witt, A. G. Crutchfield, Aaron Mann, J. W. Henson, W. T. Lambert, N. P. Taylor and Jas. H. Letcher, all of Henderson.

Memphis, Dallas & Gulf.

An officer of the Memphis, Dallas & Gulf Railroad is reported as saying that the very heavy reconstruction between Nashville and Murfreesboro, Ark., has been completed and makes that part of the road correspond in grade with the rest. Contract has been let for the first two miles from Murfreesboro east toward Arkadelphia to T. H. Sater & Bro., and another six miles along Prairie Creek Valley will soon be awarded. It includes heavy rock work and frequent crossings of the stream. Other difficult work is through the Little Chalybeate Mountains, along the valley of the Terre Noir River. Excepting this, the work is easy. Contracts will be awarded to small contractors by the company, whose headquarters are at Nashville, Ark.

Interurban Road to Reorganize.

The Washington, Baltimore & Annapolis Electric Railway has been sold at receivers' sale to the reorganization committee represented by George A. Craig of Toledo, O., for \$2,501,000, and the reorganization is to be undertaken as soon as the receivership is terminated. The receivers are George T. Bishop of Cleveland, O., and George Weems Williams of Balti-

more, Md. Mr. Bishop was president of the company, which operates a double-track electric railway between the cities of Baltimore and Washington, with a single-track branch to Annapolis and Annapolis Junction. Reports of the road show a growing business.

Dallas to Waxahachie.

The Stone & Webster Engineering Corporation of Boston, according to a report quoting Edward T. Moore, manager of the Dallas (Tex.) street railways, will build this year an interurban line from Dallas to Waxahachie, about 30 miles, and will have it in operation by fall. It will cost about \$1,000,000. Connection will be made with the Northern Texas Traction Co.'s line at Oak Cliff. Engineers are going over the route checking up surveys made five years ago. The road will be operated in connection with the Stone & Webster properties at Dallas.

Lakes-to-Gulf Railroad.

C. L. Carlton, Brownsville, Tenn., says that the proposed railroad in which he is interested is to be called "Lakes to Gulf," but the company has not yet been organized. The route contemplated at present is 37 miles long from Brownsville to Newbern, Tenn., via Maury City, Friendship and Chestnut Bluff. Connection will be made with the Illinois Central Railroad at Newbern. The route lies through slightly rolling country.

Milwaukee to St. Louis.

The Milwaukee, Peoria & St. Louis Railway, says a dispatch from Springfield, Ill., has been incorporated to build a line which is designed to be part of a long electric railway extending from Milwaukee, Wis., to St. Louis, Mo., via Rockford and Peoria, Ill. The directors are Eugene C. Morton, Frank B. Reed, Frederick C. Velmeyer, John H. O'Neil and Frank H. Gardiner, all of Chicago.

Railroad Notes.

The Bartlett & Florence Railroad, says a report from Georgetown, Tex., has been ordered sold May 29 under receivership proceedings.

J. Encke is reported to have been appointed receiver for the Estacado & Gulf Railroad, six miles long from McCaniley to Norman, Tex. The entire line proposed is from Roby to Coleman, Tex., about 100 miles.

H. M. Atkinson of Atlanta, receiver of the Atlanta, Birmingham & Atlantic Railroad, is reported to have also been appointed receiver of the Fitzgerald, Ocilla & Buxton Railway.

George W. West, a ranchman near Oakville, Tex., according to a dispatch from there offers \$350,000 for a railroad through his ranch, which is now said to be about 40 miles from the nearest railroad.

The Pennsylvania Railroad, says a report from Philadelphia quoting President James McCrea, will issue this year only \$18,000,000 of its recently-voted increase of \$100,000,000 in the capital stock.

President L. Houck of the Chester, Perryville & Ste Genevieve Railway, Cape Girardeau, Mo., denies a recent press report that he had disposed of his railroad interests to the Frisco system.

An officer of the Paris & Mt. Pleasant Railroad Co. writes that the proposed extension is from Bogota to Mt. Pleasant, Tex., 28 miles. It will include about 4000 feet of trestle-work. The route is through rolling timber country. Connection will be made with the St. Louis Southwestern Railway at Mt. Pleasant. R. F. Scott is president and N. H. Ragland general manager at Paris, Tex.

PHOSPHATE

FLORIDA PHOSPHATES.

Production of Hard Rock and Pebble During 1910.

By E. H. SELLARDS, State Geologist.

The production of phosphate rock in Florida during 1910 exceeds that of any preceding year, the output having for the first time reached and passed the landmark of 2,000,000 tons. The total production for 1909 was 1,862,151 tons, while for 1910 the production was approximately 2,029,797 tons. This large output is more remarkable in view of the depressed prices for phosphate which prevailed throughout the year. The increase is due, however, entirely to the pebble section, the output of hard rock having actually decreased.

A notable feature is the fact that shipments of phosphate during 1910 exceeded the amount mined. While the output, as already stated, slightly exceeded 2,000,000 tons, the amount shipped to domestic and foreign consignments as reported by the several companies is little, if any, short of 2,081,936 tons. This excess of shipment over production occurred in the hard rock section, where the shipments exceeded the amount mined by nearly 100,000 tons, thus materially reducing the stock on hand at the beginning of the new year.

The amount of phosphate consigned for use in the United States during 1909 from Florida was 837,217 tons, while during 1910 the consignments to points within the United States was, according to reports of the producers, slightly in excess of 1,000,000 tons. This is as it should be, and is an encouraging sign of the increased home demand for phosphate.

The price of phosphate rock during the year was nominal. The hard rock is said to have sold at \$5 to \$6 f. o. b. at mines, and the pebble at \$2.75 to \$3 f. o. b. at mines.

The total number of plants operating at the beginning of the year in the hard rock section was 37. Some of these worked out deposits or for other reasons closed down during the year, but a number of new mines opened up. The number operating at the close of the year was 45. Twenty companies in all were operating in the hard rock section during all or a part of the year.

The production of hard rock during 1910, as in the preceding year, records a decided falling off. The amount mined during 1909 was 527,582 tons, while during 1910 the output fell to about 392,088 tons. The production for 1908, 768,011 tons, is the maximum output for the hard rock fields, and unless the phosphate market materially improves is likely to remain the maximum.

As in former years, the hard rock is consigned largely to foreign markets, although the amount of hard rock used within the United States is gradually increasing. The hard rock consigned for use in the United States during 1910 was 18,745, as against 17,456 during 1909. The amount exported during 1910 was about 461,353 tons.

While the production of hard rock was further reduced during 1910, the production of pebble phosphate was materially increased. The amount of pebble mined during 1909 was 1,334,569 long tons. For the year 1910 the production of pebble rock amounted to 1,637,709 long tons, an increase of 303,140 tons. A proportionate increase during 1911, which is probable, will carry the production of pebble rock above 2,000,000 tons. Fifteen companies operated in the land pebble section during the year, and at least one new company is preparing to operate during 1911.

The shipments of pebble phosphate to

points within the United States materially increased during 1910 over 1909. The consignments within the United States for 1909 amounted to 819,761. Consignments to points within the United States during 1910 amounted to about 995,728 tons. Foreign shipments for 1909 were 509,341 tons, while during 1910 foreign shipments amounted to 606,110 tons.

MINING

Tennessee Manganese Co.

The MANUFACTURERS RECORD has received from John M. Doan of Marietta, O., a statement on the Tennessee Manganese Co. mentioned last week. This company was organized last month with a capital stock of \$50,000 and will develop 350 acres of manganese ore on the English Mountain, about three miles from Newport, Tenn. It has purchased machinery for daily capacity of 40 tons of washed ore, and this product will be offered to the steel trade. Within 60 days the plant is expected to be operating, and Mr. Doan states this will be "the only hydraulic mining of manganese in the world." John N. Adams is the engineer in charge at Newport, and he has reported that \$100,000 worth of ore is visible. He advised the MANUFACTURERS RECORD some time ago that this development was being planned. He advises the MANUFACTURERS RECORD that the plant's daily output will be 20 tons of manganese ready for furnace, 10 tons of amorphous for use in the brick trade, dry batteries, glass trade, etc. Contract for \$4000 worth of the plant machinery was awarded to John G. Duncan & Co. of Knoxville. The property being developed is referred to in the United States Survey reports as the Yellow Spring manganese mines, situated on the foothills of the English Mountain, in Cocke county, Tennessee. The Tennessee Manganese Co. has its principal offices at East Liverpool, O., and its officers are: President, Mr. Doan; vice-president and general manager, John Sant of East Liverpool; secretary, Thomas H. Sant of East Liverpool; treasurer, George F. Young of Zanesville, O. Mr. Adams is of Del Rio, Tenn.

Mount Vernon Iron Development.

The Mount Vernon Iron & Land Co. is stated to be preparing for the development of its 24,000 acres of iron and manganese land in Albemarle, Augusta, Greene and Rockingham counties, Virginia, near the Norfolk & Western Railway. This iron company was organized about a year ago with a capital stock of \$500,000, and its members include A. C. Scheer of Charleston, W. Va.; John G. Harris and Samuel M. Austin of Greenbrier, W. Va.

To Build 60 Beehive Ovens.

The Marrowbone Coal & Coke Co. of Uniontown, Pa., has determined plans for its additional coke ovens at Lookout, Ky. There will be 60 additional beehive coke ovens constructed to increase the capacity of the 32 ovens now in blast, and Edward Holley of Pikeville, Ky., is the constructing engineer. The Marrowbone company is developing 900 acres of coal land at Lookout, and has a daily output of 300 tons of coal.

To Develop Louisiana Sulphur.

The Vinton Oil & Sulphur Co. of Lake Charles, La., has been incorporated with a capital stock of \$1,000,000 for the purpose of developing sulphur properties. Its officers are: President, Aladin Vincent; vice-president, J. Lee Vincent; secretary-treasurer, J. J. Dubourg.

TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

ANOTHER BIG MILL MERGER.

A \$12,000,000 Corporation Combining South Carolina Companies.

That another big cotton mill corporation is planned for organization to combine a number of established Southern companies has been announced. The capital stock will probably be \$12,000,000 and the plants have a total of about 500,000 spindles and 15,000 looms for manufacturing various kinds of cloth. This new corporation will probably be known as the Pelzer Corporation, with the following officers: President, Ellison A. Smyth of Greenville, S. C.; vice-presidents, John A. Law of Spartanburg and A. F. McKissick of Greenville. These well-known cotton manufacturers are interested in various large mills. The following companies will probably be controlled by the new corporation: Pelzer Manufacturing Co., Pelzer, S. C.; Belton Mills, Belton, S. C.; Greenwood Cotton Mills, Greenwood, S. C.; Ninety-Six Cotton Mills, Greenwood, S. C.; Watts Mills, Laurens, S. C.; Riverside Manufacturing Co., Anderson, S. C.; Toxaway Mills, Anderson, S. C.; Duncan Mills, Greenville, S. C.; Conastee Mills, Greenville, S. C.; Issaquena Mills, Central, S. C., and Greenville Mills, Greenville, S. C.

The directors of the Pelzer Manufacturing Co. have held a meeting to further plans for the new organization, and doubtless complete details will be determined so that they can be announced soon. Various reports are current regarding the merger, but the MANUFACTURERS RECORD has been advised that the above statement is practically correct, and that details are being arranged.

Appalachian Mills.

The Appalachian Mills at Knoxville, Tenn., will remodel the 63x309-foot three-story building the company purchased, as mentioned last week. The improvements include a modern sprinkler system, 30 additional knitting machines built by the Wildman Manufacturing Co. of Norristown, Pa., about 100 sewing machines, etc., to increase the mill's daily capacity to 500 dozen pieces of men's cotton ribbed underwear. About 200 operatives will be employed. The new machinery will cost about \$30,000, and will be in operation by May 1. In the near future the company expects to install machinery for spinning its own yarns and for knitting union suits. This company sells its output direct from the factory, and has been compelled to double its output after having been in operation only nine months.

Cuero Cotton Mills.

The Cuero (Tex.) Cotton Factory has reorganized as the Cuero Cotton Mills, and will invest \$50,000 for enlargements, as reported recently. These improvements will include erecting a main mill addition 60x100 feet and a 50x60-foot ell for cloth-room and office; overhauling the old textile equipment and changing it to spin coarser yarns; installing 2000 spindles, with carding and picking machinery; installing steam-heating and humidifying systems. Building contracts will be

awarded in May. The mill now has 5000 ring spindles, 100 narrow looms, 60 broad looms, etc.

F. W. Poe Mill Improvements.

The F. W. Poe Manufacturing Co. of Greenville, S. C., is taking out 768 40-inch plain looms and installing 948 automatic 40-inch looms, most of them to be equipped for 20 harness dobby work. This increase will give the company 1700 40-inch automatic looms. Another increase is adding about 10,000 spindles to give a total of about 70,000 spindles. These improvements (including the erection of several buildings) were outlined some months ago, when the company increased its capital stock from \$500,000 to \$1,000,000. The new looms are being furnished by the Draper Company of Hopedale, Mass.

1910 Cotton Ginned.

In a report of March 20 the Census Bureau shows the ginning of the 1910 cotton crop as follows:

| State. | Running bales. | 500-lb. bales. |
|-----------------------|----------------|----------------|
| Alabama..... | 1,217,399 | 1,229,597 |
| Arkansas..... | 821,235 | 844,850 |
| Florida..... | 68,295 | 59,916 |
| Georgia..... | 1,865,896 | 1,818,582 |
| Louisiana..... | 256,987 | 256,333 |
| Mississippi..... | 1,259,479 | 1,393,379 |
| North Carolina..... | 771,185 | 729,467 |
| Oklahoma..... | 954,433 | 857,094 |
| South Carolina..... | 1,237,937 | 1,166,187 |
| Tennessee..... | 336,206 | 348,139 |
| Texas..... | 3,071,263 | 3,170,698 |
| All other States..... | 91,148 | 91,295 |

Virginia Woolen Co.

The Virginia Woolen Co. of Winchester expects to add 20 looms, built by the Crompton & Knowles Loom Works of Worcester, Mass., and other machinery to correspond. This new equipment will cost about \$15,000, and will increase the mill's monthly capacity to 45,000 or 50,000 yards of cassimeres, overcoatings and chevots. The company was mentioned last week as to increase its weaving department.

Crown Cotton Co.

The Crown Cotton Co. of Greenville, S. C., has been chartered by R. F. Bowe, Lewis W. Parker and W. E. Beattie. This company is capitalized at \$35,000, and will build a mill to manufacture cotton products from mill waste.

French Broad Manufacturing Co.

The French Broad Manufacturing Co. of Craggy, N. C., has been chartered with a capital stock of \$250,000 by F. L. Fuller and John F. Wiley, both of Durham, N. C., and others.

Textile Notes.

Ambrose Cline has purchased the Buffalo Cotton Mills, a 3500-spindle plant located at Shelby, N. C.

The Board of Trade of Acworth, Ga., is planning the organization of a company to establish a knitting mill.

The Savannah (Ga.) Cotton Mills is, it is reported, considering an enlargement to be undertaken during the summer.

C. J. Huss, John H. McDowell and John E. Hornbuckle have purchased and will operate the Vermont Cotton Mills at Bessemer City, N. C. This plant has been idle several years.

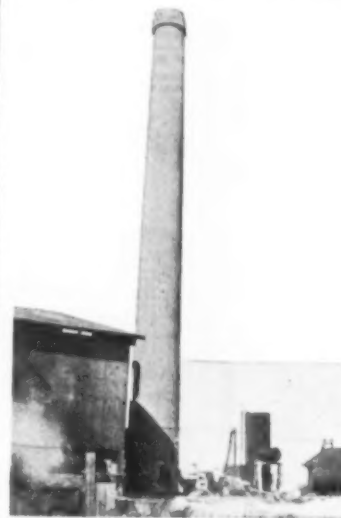
The Goodenow-Brookfield Knitting Co. of Kansas City, Mo., has increased its capital stock from \$10,000 to \$25,000. It is now operating 12 knitting machines by electric power on the production of knit coats.

Much interest is being manifested at Birmingham, Mobile, Bessemer and other Alabama cities in the revival of the plan of Mr. J. A. Van Hoose for the construction of a canal along the course of Valley Creek from the Warrior River to the Birmingham district.

MECHANICAL

Weber Coniform Chimneys.

Among the many coniform chimneys erected by the Weber Chimney Co. of Chicago is that at Princeton, W. Va., for the Virginian Railway. This chimney is 110 feet high, and has an inside diameter of 5 feet. It is of the Weber patented



WEBER CONIFORM CHIMNEY.

reinforced-concrete type. By an error last week a view of the Princeton chimney accompanied a description of the 90x5-foot Weber chimney erected for the North State Lumber Co. of Charleston, S. C. The accompanying view is the Charleston chimney. The Weber Chimney Co. is prepared to submit estimates for chimney construction in any part of the country.

Lewen System of Reinforced Concrete

The Lewen system, patented by Henry L. Lewen, 200 Fifth avenue, New York, relates to a reinforced concrete construction for erecting fireproof and earthquake-proof buildings, and pertains especially to a reinforced element and concrete slab for constructing hollow walls, partitions, floors, ceilings, roofs, etc. The object is to provide a reinforcing element which can be made up at the factory and shipped complete to be erected into the building, doing away with the use of all wood, either for molds or other purposes, and while being capable of sustaining great loads and resisting torsional strains, will permit of a certain lateral bending movement when subjected to a shock or vibration. See accompanying Fig. 1, representing an elevation with parts broken away, showing the reinforcements. Thin sheet metal is preferable in this construction, such as is employed ordinarily in making metal lath or the like, and generally its length is determined by the height of the wall or partition into which it is to be installed.

The sheet is rolled or otherwise formed with longitudinal corrugations or hollow ribs, to form fastening flanges and strengthening webs. These ribs are spaced at regular intervals, preferably about six inches apart, and project outwardly a distance proportional to the thickness of the finished slab. They are shaped in section, preferably as in Fig. 2, so as to provide a rib capable of yielding slightly to compressions transversely of the plate, permitting the plate to bend slightly, and avoiding surfaces which would tend to crack the cement or concrete where the latter is thinnest when subject to expansion and contraction by heat, cold or seismic disturbances.

The ribs are perforated transversely at

intervals throughout their length, usually about six inches apart, to admit of the insertion of reinforcing rods or wires which are laced in and out, through one rib and over another, in alternate fashion through the length of each plate, and all the connected plates.

first pair, and so on, each bolt passing through four flanges. The bolts are inserted through the connecting flanges at suitable intervals, thus binding the adjacent outer and inner slabs together and forming a hollow wall with the flue spaces for ventilation, water pipes, electric wires,

sail twines, etc., whether from cotton, flax or jute.

The Haskell-Dawes improved twister has 2½ gears only. It has but one capstan, centrally located on the socket. This does away with all oiling troubles, and works just like an ordinary journal.

trade this improved full-g geared 12-spindle tubing twister, and can guarantee it to cost less per spindle, to produce more perfect strands at a less cost per spindle in repairs, and requiring less power than any other twister on the market, producing a superior grade of strands of equal quality."

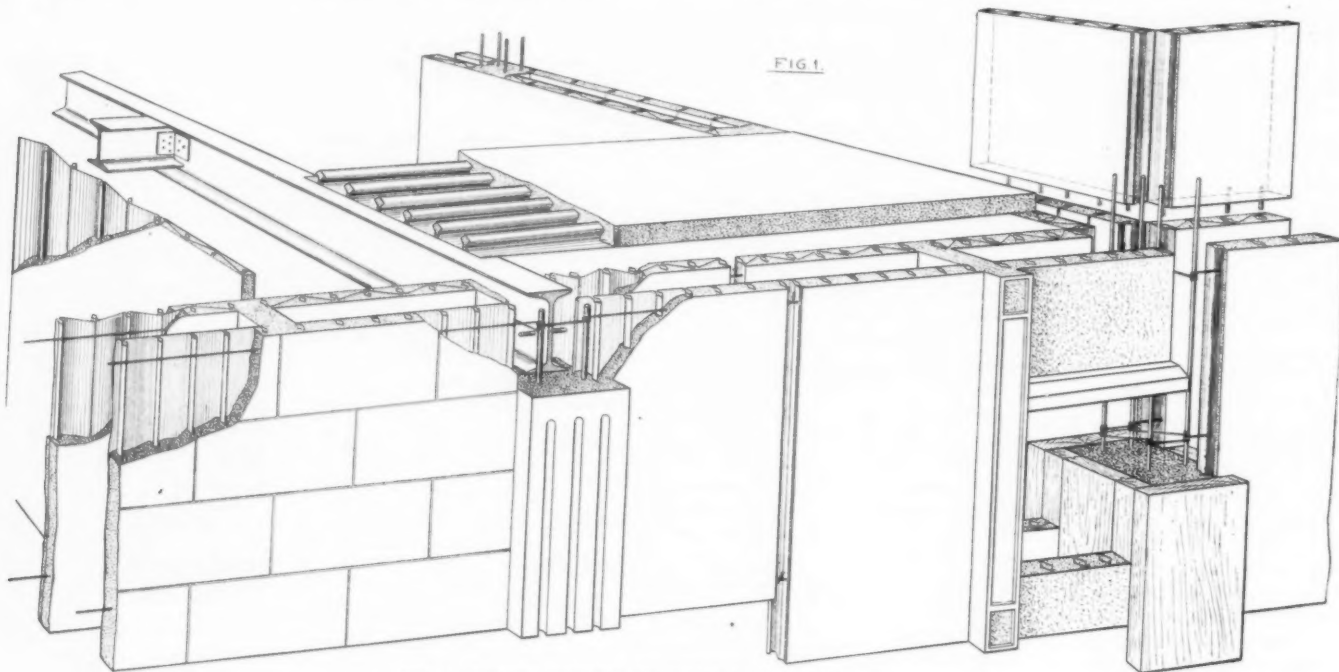


FIG. 1.—LEWEN SYSTEM OF REINFORCED CONCRETE.

The flanges generally extend a distance equal to half the width or thickness of the desired wall or partition, and are perforated at suitable intervals to receive bolts when the finished slabs are set in position.

In addition to reinforcing rods, diagonally arranged brace wires may be used and interlaced across the face of plate, the wires being preferably wrapped around each reinforcing rod. The diagonal wires strengthen the finished slab against the diagonal strains, the transverse reinforcing rods resisting lateral strain and the vertical ribs resisting vertical strain.

After the reinforcing rods and diagonal wires are in place the face of the plate is covered with concrete, cement or other suitable plastic material to the required depth, it being understood that this system contemplates that, as a general rule, the plate is coated while lying in a hori-

etc. This is continued until a wall of the required length is constructed.

This space may also be utilized for conduits of any description, and where columns are needed may be studded with vertical rods to form a substantial support for girders or the like. The flues between each pair of outer and inner slabs, besides being utilized for ventilating purposes, form a dead air insulation against heat or cold and sound.

The slabs may also be employed in floor and roof construction, being sufficiently strong where properly supported to sustain tremendous weight.

From the foregoing it will be seen that the slabs form a finished product before setting into a wall, therefore not requiring specially skilled labor in the construction of a building. The concrete being comparatively thin over the face of the longi-

The capstan itself is changed to vary the twist, thus avoiding any risk of not having the gears meshed properly, as the gears are all made and remain fixed centers.

This method also provides the means of making any slight changes in the twist. The large 5x7 hobbin used gives a great length of strand without a knot, which is

Statistics from the 15 principal points on the lines of the Southern Railway in Georgia show that between January 1 to February 21 this year there have been shipped to Georgia points 35,712 tons of commercial fertilizers, as against 25,607 tons for the same period of 1910, an increase of 10,105 tons, or practically 40 per cent.

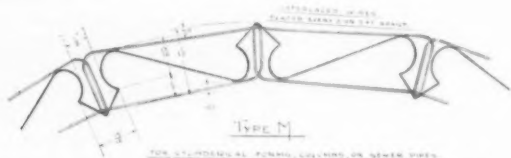


FIG. 2.—LEWEN SYSTEM OF REINFORCED CONCRETE.

zontal position, and before being assembled into the building. Manifestly, however, it is possible that the wires may be omitted and also the rods, and that the corrugated plates, with or without their rods or wires, might be erected in place in a building and plastered over later with the plastic material.

The plastic material covers the face of the plate between the outermost ribs, and when sufficiently hardened the whole forms a portable reinforced concrete or cement slab which can be readily transported and set up and assembled in a wall or partition.

The slabs are preferably made in the required lengths for a wall or partition of a given height, but they can be sawed or cut to any length, as required.

For each wall section two slabs are placed back to back, with their flanges overlapping, and the next pair of slabs have their flanges interleafing with the

tudinal ribs, will admit of a limited flexible movement of the plate when subjected to a violent shock without damaging the outer face of the wall, the reinforcing bars and diagonal wires preventing the concrete from being shaken off.

This system has been extensively used in South America, and is now being introduced in the United States. It may be applied easily to construction of poles and piling. The inventor expects to greatly extend the use of this novel system, and it has been properly covered by patents.

Haskell-Dawes Geared 12-Spindle Tubing Twister.

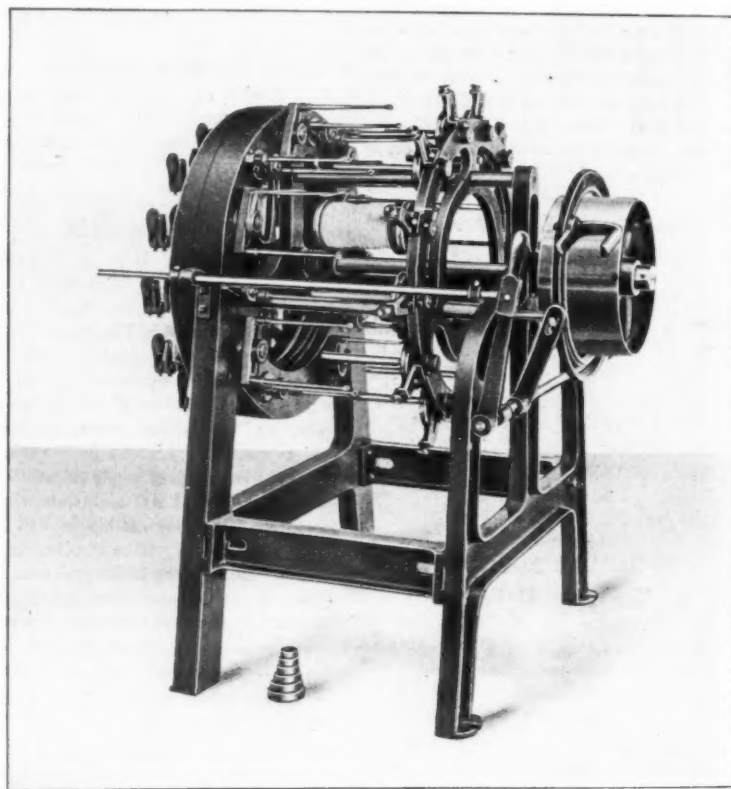
An accompanying view illustrates the Haskell-Dawes 12-spindle single capstan geared tubing twister, offered for making a perfectly-formed and twisted strand for woven hose, auto tires, duck, shoe threads,

always desirable, as well as makes a great saving in doffing, and as this size is used on beaming creels for duck, will fit the creels now in general use.

This machine is built by the Haskell-Dawes Machine Co., 176 Federal street, Boston, Mass., which says:

"We take pleasure in presenting to the

The Virginia-Columbia Steamship Corporation has applied for charter in Virginia, and proposes to operate steamers between Norfolk and Washington, D. C. Among those mentioned as interested are John Leiper Winslow of Baltimore, president; Richard B. Fentress of Norfolk, vice-president, and William Ewin Brown of Baltimore, treasurer and secretary.



HASKELL-DAWES GEARED TUBING TWISTER.

Construction Department

TO OUR READERS!

In order to follow up properly the Construction Department items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS RECORD seeks to verify the items reported in its Construction Department by full investigation. It is often impossible to do this before the item must be printed or else lose its value as news, and when this is necessary the statements are made as rumored or reported, and not as positive information. If our readers will note these points they will see the necessity of the discrimination. We are always glad to have our attention called to errors that may occur.

HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should always be shown on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item. Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will be enabled to deliver your mail promptly, although it is inevitable that some failure by the postal authorities to deliver mail to new concerns will occur.

WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter written specifically about the matter reported will receive better and quicker attention than a circular.

In correspondence relating to information published in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

The Daily Bulletin of the Manufacturers Record is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$25 per year. On all advertising contracts in the Manufacturers Record for three months or longer a subscription for the contract period to the Daily Bulletin is included.

BRIDGES, CULVERTS, VIADUCTS

Ala., Birmingham.—Jefferson County Board of Revenue will construct about 21 bridges, including 8 steel and 13 concrete structures, over various streams in county; estimated cost, \$30,000; bids will soon be invited.

Ark., Camden.—Ouachita County Commissioners will receive bids until April 18 for construction of steel bridge across Ouachita River near Camden; D. V. Snow, member Board of Commissioners. (See "Machinery Wanted.")

Fla., Brooksville.—Town will vote on issuance of \$200 of bonds for bridge construction; W. A. Thaxton, Town Clerk.

Fla., Live Oak.—Florida Railway Co. T. P. Alston, general superintendent, Live Oak, will construct four bridges across Suwannee River, one over Amelia and one across Kingsleys Rivers.

Ga., Macon.—Macon, Dublin & Savannah Railroad, D. B. Dunn, chief engineer, will receive bids until March 30 for recently-noted steel bridge across Okmulgee River; plans, etc., at office of chief engineer. (See "Machinery Wanted.")

La., Alexandria.—Rapides Parish Police Jury will consider election to vote on \$100,000 bond issue to purchase present traffic bridge or construct new one across Red River.

Md., Texas.—Towson & Cockeysville Electric Railroad Co., James S. Nusser, secretary, Lutherville, Md., will construct one bridge across Northern Central Railway tracks north of Texas; also one tunnel under Seminary Ave. at Lutherville, Md.

Miss., Grenada.—Grenada County Supervisors will construct steel and reinforced

concrete bridge and repair Cane Creek bridge, District No. 5; bids invited. (See "Machinery Wanted.")

S. C., Columbia.—Richland county voted issuance of \$75,000 of bonds for purchase of present bridges or erection of new structures across Congaree and Broad rivers. Address County Commissioners. (Recently mentioned.)

S. C., Greenville.—Piedmont Traction Co. awarded contract to William J. Oliver, Knoxville, Tenn., to construct bridges in connection with grading of roadbed of interurban railroad from Greenwood to Spartanburg, distance of 95 miles; Mr. Oliver's contract covering grading, masonry and trestle work.

Tenn., Dyersburg.—Birmingham & Northwestern Railway, Mike Harvey, chief engineer, will construct 70-foot steel bridge and trestle over Forked Deer River.

Tex., Angleton.—Brazoria county (recently noted to vote April 4 on \$100,000 bond issue) proposes to erect two steel bridges across Brazos River; length, about 600 to 800 feet; J. W. Munson, County Judge.

Tex., Bogata.—Paris & Mt. Pleasant Railroad Co., N. H. Ragland, general manager, Paris, Tex., will construct about 4000 linear feet of trestling in connection with 28 miles of railway to be built from Bogata to Mt. Pleasant, Tex.

Tex., Bryan.—Bryan Brazos Valley Railroad Co., J. K. Parker, vice-president and general manager, is asking bids on previously-noted bridge across Brazos River near Bryan; steel structure, with concrete piers.

Tex., Corpus Christi.—City will construct concrete bridge across ravine. Address City Commissioners.

Tex., Houston.—Plans are progressing for 1600-foot reinforced concrete Mains-street viaduct, to bridge Buffalo and White Oak bayous; 45-foot roadway to be paved with brick; two sidewalks, each 7½ feet wide; probably 12-foot or 15-foot water main under roadway, and ducts for telephone and electric-light wires; also gas mains, with hydrants for fire protection, etc.; Frank L. Dormant, consulting engineer. (Recent notices include mention of \$500,000 bond issue voted.)

Tex., Rockport.—Rockport & Port Arkansas Railway, C. G. Johnson, president, contemplates constructing two miles of trestles and one steel bridge. (See "Miscellaneous Construction.")

Va., Fredericksburg.—Spotsylvania county will construct 50-foot reinforced-concrete arch with four 16-foot standard concrete slabs across Hazel Run; bids received until March 24; A. F. Brown, resident engineer; P. St. J. Wilson, State Highway Commissioner, Richmond, Va. (See "Machinery Wanted.")

CANNING AND PACKING PLANTS

Md., Coloma.—Strausbaugh & Silver, Elkton, Md., will erect two-story cannery for sugar corn.

Tenn., Centerville.—Bon Aqua Canning Co. reorganized and incorporated with \$2500 capital stock by S. C. Broome, F. P. Tidwell, R. B. Doud and R. F. Sweeney.

Tex., Sweetwater.—Davis Packing Co., 444 W. 14th St., New York, will build packing plant.

CLAYWORKING PLANTS

Ala., Gadsden.—J. H. Birback, Akron, Ohio, contemplates establishing pottery; local clay deposits to be used; about \$75,000 may be invested.

Ala., Riverside.—Brick.—W. Mercer Morris, Columbus, Ga., purchased Riverside Brick Co.'s plant and will operate; install dryer and increase capacity of plant to 60,000 brick daily; O. B. Morris, Macon, Ga., will be in charge.

Ga., Monticello.—Bricks.—B. Jordan will operate brick plant of 6000 daily capacity. (Recently noted to establish plant.)

La., Evangeline.—Bricks.—Evangeline Brick Mill Co. organized by E. A. Edwards and others.

La., Forest Hill.—Improved Brick & Stone Co. will operate plant with daily output of 10,000 fireproof bricks; F. C. Ratliff, president and secretary; L. H. Mizell, treasurer. (Recently noted organized.)

Okl., Lugert.—Bricks.—Oriental Vitified Brick Co. incorporated with \$60,000 capital

stock by E. J. Du Pree, J. F. St. Clair and P. S. St. Clair, all of Oklahoma City, Okla.

Tex., Brownsville.—Brick and Tile.—C. E. Brandisch leased Brownsville Brick & Tile Co.'s plant; will install additional machinery and operate for manufacture of brick and tile under title of C. E. Brandisch Drain Tile Co.

COAL MINES AND COKE OVENS

Ky., Hillside.—Advance Coal Mining Co. incorporated with \$30,000 capital stock by W. E. Judkins of Hillside, C. H. Judkins of Cleveland, O., and Lee Stone of Greenville, Ky.

Ky., Island.—O'Neill Coal Co. will develop 22 acres of coal land; daily output 75 tons of coal; cost of machinery \$1800; John O'Neill, president; N. Perod, vice-president; W. C. Ferguson, secretary-treasurer; Mr. Ferguson is engineer in charge. (Recently reported incorporated with \$10,000 capital stock.)

Ky., Lookout.—Marrowbone Coal & Coke Co., J. F. McCrackin, president, main office, Uniontown, Pa., will build 60 additional beehive coke ovens; Edward Holley, construction engineer, Pikeville, Ky. (Previously noted under Marrowbone, Ky.)

Tenn., Chattanooga.—Patten Coal Mining Co. incorporated with \$10,000 capital stock by John A. Patten, J. R. Barnes, B. D. Turnman, W. B. Stewart and James Adams.

Texas.—American Briquetting Co. organized with \$1,250,000 capital stock by B. H. Rannels, New Carlisle, Ohio, and others to establish plants in Texas and other States for pulverizing, treating and compressing lignite.

W. Va., Charleston.—Big Coal River Oil, Gas & Coal Co. incorporated with E. Fontaine Brown as president; offices at No. 19 Citizens' Bank Bldg.; owns no land; purpose is to secure leases. (Recent mention not correct.)

W. Va., Olmstead.—Dixon-Pocahontas Fuel Co. (recently stated to have increased capital stock from \$600,000 to \$900,000) will sink shaft to No. 3 Pocahontas vein.

W. Va., Red Jacket.—Red Jacket Consolidated Coal Co. will construct coal tipples; steel; concrete piers; daily capacity 5000 tons.

CONCRETE AND CEMENT PLANTS

Ky., Pine Hill.—Freeborn Construction Co. of Kansas City, Mo., will build, it is reported, plant with daily capacity of 1600 barrels Portland cement.

Tex., Victoria.—Southwestern Cement Brick & Tile Co. organized with \$6000 capital stock by James F. Welder, Theodore Buyer, John Stoffels and others; will establish brick plant to have daily capacity of 20,000 to 30,000 bricks; river sand to be used.

COTTON COMPRESSES AND GINS

Ark., Prescott.—Farmers' Union will erect four-stand cotton gin.

Ark., Scranton.—A. P. Kincaide, Paris, Ark., will erect \$10,000 cotton gin.

Okl., Okmulgee.—Baker & Mabry will erect cotton gin; boiler, 100-horse-power engine, 470-saw gins, cleaners and other machinery have been ordered.

Okl., Wynnewood.—Wynnewood Gin Co. incorporated with \$5000 capital stock by John L. Case, A. L. Mitchell and Kathline Case.

Tex., Bartlett.—Fowler Gin Co. incorporated with \$20,000 capital stock by T. E. Fowler, Eugene Fowler and E. C. Haebler.

Tex., Bloomington.—A. F. Reimenschneider will establish six-stand 70-saw cotton gin.

Tex., Laveria.—Kott & Weisman will erect cotton gin consisting of battery of five 80-saw gin stands; galvanized iron construction; contract awarded to San Antonio Machine & Supply Co., San Antonio, Tex.; daily capacity 50 bales cotton.

Tex., Mission.—Mission Farming Co. is reported to erect cotton gin within 60 to 90 days.

Tex., Plantersville.—T. S. Blake will erect cotton gin.

Tex., Taylor.—Farmers' Union Warehouse Co., J. R. Hargis, president, will establish \$25,000 cotton gin and erect 500-ton seedhouse.

COTTONSEED-OIL MILLS

Okl., Hollis.—Hollis Cotton Oil, Light & Ice Co. incorporated with \$75,000 capital stock by C. Burton, R. K. Wooten and J. T. Aust, all of Chickasha, Okla.; W. A. Wil-

held, Quanah, Okla., and W. H. Hays, Norman, Okla.

S. C., Inman.—Inman Oil Mill incorporated with \$15,000 capital stock by C. C. McMillin, J. H. Gosnell, E. E. Clement and S. P. Clark.

ELECTRIC-LIGHT AND POWER

Ala., Albertville.—City has contracted with J. B. McCrary Company, Atlanta, Ga., to construct electric-light plant; 80-horse-power engine and dynamo have been ordered; \$7000 bond issue voted. (Recently mentioned.)

Ala., Eufaula.—City will erect gas and electric-light plant; cost \$50,000; bids will be asked about April 15; C. S. McDowell, Mayor. (Recently noted.)

Ark., Harrisburg.—Morris Hayutin purchased Harrisburg Electric Light & Power Co.'s plant, and will improve.

Ark., Monticello.—Improvement District No. 1 of Monticello awarded contract to Oglesby Bros. of Monticello to erect power and light plant; building to be of concrete; contract for machinery awarded; will replace plant recently reported burned.

Ark., Scranton.—A. P. Kincaide, Paris, Ark., will petition Town Council for electric-light franchise.

Fla., Fort Meade.—D. O. Rogers, Wauchoula, Fla., is promoting organization of company with \$50,000 capital stock to erect plant to generate electricity for heating, lighting and power.

Fla., Jacksonville.—Jacksonville Electric Co., Stone & Webster Engineering Corporation, engineer in charge of design and construction, 147 Milk St., Boston, Mass., will expend \$824,012 for improvements as follows: New power station, 2400 kilowatts capacity, \$325,000; 10 new cars, \$50,000; double track Oak St. from Copeland to King St., \$19,200; double track Church St., Georgia to Parker, \$22,548; double track Highway Ave., Palm St. to city limits, \$10,588; rebuild and pave Beaver St. from Davis to Coring, \$3300; rebuild and pave Coring St. from Beaver to Cleveland, \$1664; rebuild and pave Enterprise St., Cleveland to Myrtle Ave., \$7865; rebuild and pave Church St., Johnson to Stewart, \$3225; repave East Bay St. from Main to Bridge, \$25,515; rebuild and pave Davis St. from Kings Rd. to 8th St., \$24,355; rebuild and pave State St. from Main to Kings Rd., \$18,322; pave Washington St. and May St., \$1350; pave Bay St. from Cleveland to Myrtle Ave., \$2200; addition to car barn, \$25,000; railway feeder, \$10,000; miscellaneous items, \$32,000; will erect coal piers and wharves; power station building to be of steel frame and brick construction; stack, reinforced concrete. Principal power equipment will be two 1800-kilowatt maximum-rated direct-current generators, coupled to two 2400-horse-power Cross compound engines; three 600-horse-power boilers; barometric column-type condensers; coal-handling apparatus, and 17-ton locomotive crane. This equipment arranged for. (Previously briefly reported.)

Fla., South Jacksonville.—City will vote April 6 on issuance of \$60,000 of bonds for construction of electric light and sewerage systems. Address The Mayor.

Ga., Augusta.—Augusta Railway & Electric Co., Franklin Q. Brown, president, is completing arrangements for various improvements to its electric system; City Council passed ordinance requiring placing of wires underground on various streets and closing definite contract for city street lighting for period of five years; general plans for underground system are being prepared, and active work will soon begin; orders have been placed for steam turbine and electric generator of about 4000 horse-power capacity, boilers, condensers and other auxiliary apparatus to be installed in new building at West Plant power-house; J. G. White & Co., 43 Exchange Pl., New York, are engineers in charge; Augusta Railway & Electric Co. and Alken Railway Co. decided to change present Alken line power-house into substation and install additional machinery; when work is completed Alken power-house will be closed as generating station, and power for that railway will be furnished from Augusta plant; Augusta company will also make various improvements to trackage and build new passenger line on Center and other streets. (Company was previously mentioned to expend from \$500,000 to \$1,000,000 during present year for improvements.)

Ga., Oglethorpe.—City will vote April 12 on issuance of \$18,000 of bonds for construction of electric-light plant and water-works. Address The Mayor.

Ga., Pelham.—City voted issuance of \$28,000 of bonds for improvement of light system, etc. Address The Mayor. (See "Water-works.")

Ky., Paintsville.—Paintsville Water & Light Co. will operate electric-light plant; purchased power; John G. Smyth, president and treasurer; H. M. Stafford, vice-president; Clarence W. Howes, secretary; capital stock \$20,000. (Recently noted incorporated.)

La., Mandeville.—Mandeville Light & Ice Co. awarded contract for ice-refrigerating plant; 10 tons ice and 5 tons refrigeration; E. A. Sammons, engineer, New Orleans, La. (See "Ice and Cold Storage Plants.")

Miss., Newton.—City has engaged Xavier A. Kramer, Magnolia, Miss., as engineer in charge of construction of electric-light plant; will open bids April 4 for material and machinery; recently noted to vote \$1,000 bond issue for installation of electric-light plant in connection with water-works; G. M. Beaver, Mayor. (See "Machinery Wanted.")

Mo., Burlington Junction.—City is arranging to purchase Burlington Junction Electric Light & Power Co.'s plant; improvements will be made as needed; Lon Monk, City Clerk. (Recently noted to vote \$85,000 bond issue.)

Mo., St. Louis.—Board of Public Works will install electric-light plant in basement of city hall; cost \$70,000.

N. C., Rockingham.—Yadkin River Power Co. chartered with \$4,000,000 capital stock; Charles E. Johnson, president, Raleigh, N. C., telegraphs Manufacturers Record that chartering of new company is preliminary to resuming construction of Rockingham Power Co.'s water-power-electric plant at Blewett Falls; E. Clifford Potter, treasurer of Colonial Securities Co., 50 State St., Boston, Mass., recently advised Manufacturers Record that reorganization plan of Rockingham Power Co. was progressing; he purchased Rockingham property in 1910; plant is designed to transmit 20,000 horse-power by electricity; Phoenix Construction Co. has been chartered to build 100 miles of transmission lines for plant.

Okla., Hollis.—Hollis Cotton Oil, Light & Ice Co. incorporated by C. Burton, Chickasha, Okla., and others. (See "Cottonseed Oil Mills.")

S. C., Edgefield.—City is considering election to vote on issuance of \$15,000 of bonds for construction of electric-light plant. Mr. Cox, proprietor of electric-light plant at Johnston, S. C., submitted proposition to Town Council to enlarge plant and transmit electricity to Edgefield. Address Town Clerk.

S. C., Sumter.—Sumter Lighting Co. incorporated with \$200,000 capital stock by I. C. Strauss and E. H. Moses.

Tenn., Trenton.—City will vote on issuance of \$22,000 of bonds, of which \$3300 is to be used for purchase of plant of Keenan, Wade & Wade and balance for rebuilding of plant. Address The Mayor.

Tex., Belton.—Belton Ice & Electric Co. incorporated with \$75,000 capital stock by W. W. Thornton, N. K. Smith and M. V. Smith.

Tex., Brownsville.—City voted issuance of \$15,000 of bonds to double capacity of electric-light plant. Address The Mayor. (Recently mentioned.)

Tex., Coleman.—City will install additional machinery in electric-light plant; \$20,000 bond issue authorized; contract awarded to Bugge, Weaver & Co., Dallas, Tex.

Tex., Luling.—City Council granted 20-year franchise to Luling Electric Light & Power Co. to construct and operate electric-light plant.

Va., Radford.—Virginia Power Co. increased capital stock to \$1,000,000; J. J. Mott of East Radford, Va. (one of company's organizers), telegraphs to Manufacturers Record principal details as follows: "Virginia Power Co. controls, on different rivers in Virginia, 100,000 horse-power, of which 30,000 will be developed for local use. Transmission system 500 miles. Development in seven different projects. Final cost \$12,000,000. Development of 10,000 horse-power will be started this spring. Robert A. Schott, chief engineer, Radford, Va." (Previously mentioned.)

W. Va., Logan.—Aranoma Coal & Coke Co. awarded contract to W. E. Wolfenden Electrical Co., Roanoke, Va., to construct electric light and power plant.

W. Va., Logan.—W. E. Wolfenden Electrical Co., Roanoke, Va., has contract to construct electric light and power plant.

FERTILIZER FACTORIES

Fla., Tampa.—Gulf Fertilizer Co., L. R. Woods, president, will increase capital stock from \$100,000 to \$150,000.

Md., Baltimore.—D. B. Martin Company, William English, manager, Union Abattoir, will rebuild three fertilizer plant buildings reported wrecked by explosion at loss of \$20,000; William English, manager.

S. C., Great Falls.—Southern Electro-Chemical Co.'s president is A. H. Burroughs, 111 Fifth Ave., New York; now building \$125,000 plant for fixation of nitrogen, annual output to be 300 tons nitrate of lime. (Other details lately reported.)

FOUNDRY AND MACHINE PLANTS

Fla., Tampa.—Centrifugal Pumps, etc.—Gulf Machine Works, John S. Long, president, will change name to Gulf Iron Works and increase capital stock from \$10,000 to \$50,000; Aulick & Miller of Tampa, contractors, are completing corrugated iron building, 70x28 feet, costing \$3500, in which machinery costing about \$25,000 will be installed for manufacturing centrifugal pumps, equipment for phosphate mining, etc.; brass furnace will also be built; F. J. Kennard prepared plans for building. (Recently mentioned.)

Ga., Moultrie.—Stumping Machines.—Eureka Stumping Machine Co. incorporated with \$5000 capital stock and privilege of increasing to \$25,000 by H. L. Harrell, B. F. Bruton, W. E. Wells and others.

Mo., St. Louis.—Bucket Pumps.—Star Bucket Pump Co. will erect factory building; 75x125 feet; four stories; sprinkler system; electric elevators.

Mo., St. Louis.—Radiators, etc.—Continental Radiator & Foundry Co., 1411 Olive St., contemplates erection of foundry.

Mo., St. Louis.—Pipe Threaders, etc.—Spring Pipe Threader & Manufacturing Co., 16 N. 4th St. (recently noted incorporated with \$50,000 capital stock), will establish plant to manufacture spring pipe threaders, cutters and vises; will open machinery bids about May 1; plans for building not decided; Chas. Maxwell, president; R. M. Eilers, vice-president; John W. Calhoun, secretary-treasurer. (See "Machinery Wanted.")

N. C., Charlotte.—Textile Machinery.—Charlotte Manufacturing Co. incorporated with \$50,000 capital stock by F. W. Glover, A. J. Crampton and P. L. McMahon.

N. C., Gastonia.—Iron Works.—Gaston Iron Works incorporated with \$100,000 capital stock by B. Frank Norris, W. L. Smith and H. O. Childress.

Okla., Muskogee.—Stoves, etc.—Central Stove & Plating Co., Columbus, O., will establish stove and plating plant; machinery will be installed in stone building, 150x85 feet; G. D. McDaniels will be general manager.

Tex., Port Houston, P. O. Houston.—Welschborn Manufacturing Co. will erect foundry; initial building, 32x80 feet, about ready for machinery; construction of main building, two stories high, 100x200 feet, will soon begin; simultaneously with erection of main structure foundry will be built for making castings used in manufacture of cotton-baling machines; this building will be one story high, 100x100 feet; company will soon install plant for galvanizing wire, fence posts and screens; also plans manufacture of patented cotton chopper at rate of 5000 machines annually. (Recently mentioned under "Woodworking Plants.")

W. Va., Wellsburg.—Brass and Iron.—Ohio Valley Brass & Iron Co. incorporated with \$75,000 capital stock by O. and S. George of Wellsburg, T. J. Wheanty of Lakewood, O., and others.

GAS AND OIL DEVELOPMENTS

Ark., Pine Bluff.—Pine Bluff Natural Gas Co. incorporated with \$100,000 capital stock; is branch organization of Arkansas Natural Gas Co., and proposes to furnish natural gas in Pine Bluff and vicinity for heating, lighting and power; company is at present extending pipe line from Caddo gas and oil fields to Pine Bluff and other Arkansas cities; A. B. Dally is president; W. P. Dally, vice-president; W. B. Smith, secretary-treasurer, all of Little Rock, Ark.

Okla., Altus.—Elmer Oil & Development Co. incorporated with \$25,000 capital stock by J. G. Beckley, J. L. Crump and Everett Petry.

Okla., Bartlesville.—Colonial Petroleum Co. incorporated with \$50,000 capital stock by Pearl Beferly, J. D. Talbott and A. M. Tate.

Okla., Poteau.—Poteau Valley Oil & Gas Co. incorporated with \$5000 capital stock by G. E. Noble, G. A. Morrison, J. W. Hale, J. F. Miller, E. L. Taylor and others.

Okla., Tulsa.—Battle Oil Co. has elected Claude M. Harburger of New York, president; Huletta F. Ahy, Tulsa, vice-president; W. B. Segal, New York, secretary-treasurer; capital stock \$150,000. (Recently noted incorporated.)

Tex., Houston.—Kiser Hill Oil Co. incorporated with \$25,000 capital stock by A. J. Bond, O. B. McDowell, Frank Davis and others.

W. Va., Huntington.—Huntington Land & Oil Co. incorporated with \$10,000 capital stock by A. B. Brode, J. M. McCooch, J. J. Fesenmeier, John Rau, Sr., and others.

W. Va., Parkersburg.—Liquid Fuel Co., 401 3d St., incorporated with \$4000 capital stock by W. G. Reed, C. B. Watson, H. B. Hogg and others; machinery and equipment purchased; capacity 350,000 cubic feet.

W. Va., Parkersburg.—Keller-Sarber Oil & Gas Co. incorporated with \$40,000 capital stock by C. E. Sarber, C. L. Slayton, R. E. Mumaugh, W. F. White and T. C. Logan.

ICE AND COLD-STORAGE PLANTS

Ala., Montgomery.—Bozeman Warehouse, Storage & Selling Co. contemplates installing ice and cold-storage plant; invites bids for drilling artesian well in basement of its building at 5 W. Jefferson St.

La., Mandeville.—Mandeville Light & Ice Co. awarded contract for lighting and refrigerating plant to cost \$5000; 15 kilowatt generator included; E. A. Sammons, engineer, New Orleans, La. (See "Ice and Cold Storage Plants.")

N. C., Wilson.—Wilson Ice & Fuel Co. incorporated with \$125,000 capital stock; T. M. Washington, president; G. D. Green, vice-president; W. J. Boykin, secretary, treasurer and manager; purchased plant of Consolidated Ice Co.

Okla., Hollis.—Hollis Cotton Oil, Light & Ice Co. incorporated by C. Burton, Chickasha, Okla., and others. (See "Cottonseed Oil Mills.")

S. C., Walterboro.—John D. Glover (recently noted in connection with ice plant to be established) states plant will not be built this year.

Tex., Belton.—Belton Ice & Electric Co. incorporated with \$75,000 capital stock by W. W. Thornton, N. K. Smith and M. V. Smith.

Tex., Brownsville.—People's Ice & Mfg. Co. increased capital stock from \$40,000 to \$100,000.

Tex., Jasper.—H. R. Dean, Orange, Tex., will construct ice plant for stock company.

IRON AND STEEL PLANTS

Tex., Houston.—Rolling Mill, etc.—United Steel & Iron Co. has plans for construction of plant; erect 60x200-foot main building of frame, with steel shed, and two 25-foot additions for boiler and engine; install machinery for converting old iron and steel into marketable iron and steel shapes; machinery all purchased, and includes 14-inch rolling mill, 750-horse-power engine, three 150-horse-power boiler, heating furnaces, blacksmith shop, etc.; I. N. Willard of Utica, N. Y., is president; N. L. Mills of Houston is director. (Previously reported organized with \$150,000 capital stock, etc.)

LAND DEVELOPMENTS

Fla., Miami.—Miami Home Development Co. purchased 5000 acres about 22 miles south of Miami and will establish truck and citrus fruit plantation; planned to have 20 grapefruit groves and 400-acre truck farm beginning with 150 acres for next fall's planting; office in lobby of Seminole Hotel; J. M. Shilling, Chicago, Ill., is manager.

La., Lake Charles.—Louisiana Orchard & Land Co., A. J. Perkins, president, is correct name of company recently noted incorporated with \$150,000 capital stock to develop "The Pioneer Orchards"; 1000 acres land to be divided into five-acre tracts, planted in oranges, figs and grapefruit, to be cultivated for term of years, then delivered to owner as bearing orchards; company to do its own road and field work; no proposals or contracts; H. F. Ehrman, secretary.

Md., Lonaconing.—Fred Sloan Orchard Co. incorporated with \$10,000 capital stock by Fred P. Sloan, James M. Sloan, M. Percy Sloan and others.

N. C., Southport.—North Carolina Farming & Realty Co. incorporated with \$300,000 capital stock by R. C. Cool, E. C. Atwood and Robert Ruark.

S. C., Anderson.—College Heights Land Co. incorporated with \$60,000 capital stock; R. S. Ligon, president and treasurer; T. Allen, secretary.

Tenn., Cumberland County.—Bohemian Co-operative Farming Co., Andy Haisler, president, Dillonvale, O., purchased 5000 acres at Johnson Stand, Cumberland county, for about \$50,000, and will colonize; plan is to locate 100 families on tract and cultivate vegetables, fruits, grains and grasses.

Tex., Houston.—W. A. Bard, Fort Wayne, Ind., will develop residential section to be known as "Seacrest;" property has water frontage of 1188 feet.

Tex., Waco.—A. W. Koch & Co. have \$100,000 available for proposed improvements at Highland Place; water-works, \$15,000 to \$20,000; sewers, \$15,000 to \$20,000; street signs, \$200; two entrance gates, \$250; sidewalks and curbs, \$30,000; paving, \$20,000; M. J. McCombs, engineer in charge, 346 Main St., Dallas, Tex. (See "Road and Street Work.")

Va., Portsmouth.—Southside Park Corporation incorporated with \$3000 capital stock; I. T. Van Patten, president; W. C. Moore, secretary; J. Garland Weaver, treasurer.

Va., Richmond.—Virginia Development Co. incorporated with \$25,000 capital stock; C. G. Garnett, president; J. Mosby West, vice-president; J. G. Richardson, secretary-treasurer.

W. Va., Keyser.—Davis Fruit Farm incorporated with \$10,000 capital stock by L. O. Davis, George R. Davis, D. B. Davis and others.

W. Va., Keyser.—Abrams Ridge Orchard Co. incorporated with \$25,000 capital stock; O. A. Hood, president; T. T. Huffman, vice-president; J. Ed. Frye, secretary; H. L. Arnold, treasurer; company owns 188 acres; will plant commercial orchard.

LUMBER MANUFACTURING

Ala., Birmingham.—Birmingham Sawmill Co. incorporated with \$25,000 capital stock; Charles E. Thomas, president; Edward W. Wiese, vice-president and secretary, and Raymond Brittain, treasurer.

Ala., Dothan.—C. A. and A. E. Hall (care of N. B. and Hart Dowling) will establish veneer plant; purchased 200 acres of land for \$10,000.

Ala., Fort Deposit.—John Bruce Farrior will establish lumber plant.

Ala., Montgomery.—Highland Park Lumber Co. incorporated with \$10,000 capital stock by Henry Craig, William Bissell and I. O. Anderson.

Ark., Gillett.—Gillett Lumber Co. will construct lumber mill.

Ark., Little Rock.—Max Lumber Co. incorporated with \$20,000 capital stock; P. Vickery, president; G. W. Works, vice-president; R. E. Wylie, secretary-treasurer.

La., Hammond.—Natalbany Lumber Co. increased capital stock to \$2,000,000.

La., Rhoda.—Waddell-Williams Lumber Co., H. A. Waddell, president, has plans by J. F. Wakefield, New Orleans, La., for 40x200-foot sawmill.

Miss., Laurel.—Carter-Toomer Lumber Co. incorporated with \$20,000 capital stock by V. M. Carter, P. J. Toomer and others.

Mo., Kansas City.—Stinson-Adams Lumber Co., 104 R. A. Long Bldg., deal (wholesale) in yellow pine. (Recently reported incorporated with \$50,000 capital stock.)

Mo., Leeton.—Leeton Lumber Co. incorporated with \$8000 capital stock by John B. James, Perry A. Jones, W. F. Sipes and others.

Mo., Stover.—Fajen Lumber Co. incorporated with \$15,000 capital stock by Otto J. Fajen, L. J. Fajen and H. P. Fajen.

North Carolina.—Godsey Bros., Bristol, Va.-Tenn., will develop timber land in Western North Carolina; will remove sawmill from Bristol to tract.

N. C., Marion.—Marion Enterprise Mfg. Co. incorporated with \$50,000 capital stock by James I. Blackburn, Gerard Sall, D. L. Carlton and J. N. Yelton.

N. C., Waynesville.—American Lumber Co. incorporated with \$50,000 capital stock by C. H. Hobbs, C. E. Gordon and Louis Carr.

S. C., Barnwell.—Barnwell Lumber Co., recently reported incorporated with \$60,000 capital stock by R. T. Yates, Lynchburg, Va., and others, will erect band mill with daily capacity of 5000 feet of lumber; Albert Towse, Charlotte, Mich., will be active manager. This is branch organization of Virginia-Carolina Lumber Co. of Lynchburg, Va.

S. C., Charleston.—Big Salkehatchie Cypress Co. incorporated with \$300,000 capital stock by Augustine T. Smythe and Donald McKay Frost; organized to take over and hold cypress timber in Big Salkehatchie Swamp; no development contemplated for near future.

S. C., Landrum.—Landrum Lumber Co. in-

corporated with \$5000 capital stock; W. F. Culbreath of Hendersonville, S. C., president; J. C. Morrow of Landrum, secretary-treasurer.

Tenn., Newport.—McCabe Lumber Co. contemplates erecting additional buildings.

Tex., Caro.—Saner-Whiteman Lumber Co. will rebuild burned sawmill.

Tex., Caro.—Saner-Whiteman Lumber Co., John C. Saner, president, will rebuild sawmill recently reported burned; daily capacity 125,000 feet of lumber; will open bids in about 10 days for installation of machinery. (See "Machinery Wanted.")

Tex., Voth.—Keith Lumber Co., Beaumont, Tex., will rebuild burned planing mill; machinery ordered.

Tex., Voth.—Keith Lumber Co., W. C. Keith, superintendent, is rebuilding planing mill recently reported burned; will be completed in 30 days; no machinery needed.

Va., Penola.—L. D. George Lumber Co. organized to take over lumber plant of L. D. George; propose no immediate purchase of machinery or equipment; later, contemplates erection of new drykilns and other improvements; L. D. George, president and general manager; J. L. Blizard, vice-president and treasurer; W. E. Jennings, secretary. (Recently noted incorporated at Sumter, S. C., with \$100,000 capital stock.)

METAL-WORKING PLANTS

Md., Baltimore.—Sheet Metal.—Edward Wehrman, Jr., 1201 Haubert St., will erect sheet metal and plumbing works at 1201-1208 Haubert St., Locust Point; building will be one story, 24x64½ feet, and cost \$1000.

MINING

La., Lake Charles.—Sulphur, etc.—Vinton Oil & Sulphur Co. reorganized with \$1,000,000 capital stock; Aladin Vincent, president; J. J. Dubourg, secretary-treasurer; development work contemplated.

Mo., Joplin.—John Bull Mining Co. incorporated with \$50,000 capital stock by W. J. Chipman, Frank Ebelhar, J. T. May and others.

Mo., Springfield.—Jersey Fissure Mining & Milling Co. incorporated with \$100,000 capital stock by F. L. Caskey, J. J. Purdy, A. W. Lincoln and others.

Okla., Davis.—Lead and Zinc.—Big Eight Mining Co. (recently reported incorporated with \$50,000 capital stock) will at present develop 20 acres; open machinery bids in about 30 days; cost of machinery, \$30,000; Geo. W. Frary, president; C. H. Kenedy, vice-president; C. H. Churchwell, secretary; Chas. Lyons, treasurer; W. O. Leonard, manager. (See "Machinery Wanted.")

Tenn., Newport.—Manganese.—Tennessee Manganese Co. organized with \$50,000 capital stock and principal offices at East Liverpool, O.; president, John M. Doan of Marietta, O.; vice-president and general manager, John Sant of East Liverpool; secretary, Thomas H. Sant of East Liverpool; treasurer, George F. Young of Zanesville, O.; will develop 350 acres manganese ore on English Mountain about three miles from Newport; mine with hydraulic machinery; plant purchased; daily capacity 40 tons washed ore for steel trade; John N. Adams, engineer in charge at Newport. (Briefly mentioned lately and previously.)

Va., Massaponax.—Sand.—Southern Sand & Gravel Co. incorporated with \$25,000 capital stock; G. B. Strickler, president; C. B. Lathrop, vice-president; J. D. Patten, secretary; will develop 500 acres of sand and gravel deposits; daily capacity 800 cubic yards of washed gravel and sand; main office address, 16th and Marshall Sts., Richmond, Va. (See "Machinery Wanted.")

Va., Harrisonburg.—Iron and Manganese.—Mt. Vernon Iron & Land Co. is, it is reported, preparing to develop 24,000 acres iron and manganese land in Rockingham, Augusta, Greene and Albemarle counties; erect stone crushing plant and construct railway. A. C. Scherr of Charleston, W. Va.; John G. Harris and Samuel M. Austin of Greenbrier, W. Va., are interested. (Company organized last year with \$500,000 capital stock.)

MISCELLANEOUS CONSTRUCTION

La., Mobile.—Pier.—New Orleans, Mobile & Chicago Railroad Co., W. F. Owen, general manager, will build pier from Choctaw Point to deep water) 1200x175 to 200 feet, of fireproof construction, with steel warehouses and sheds in center; dredge river to depth of 27 feet beside docks; tentative plans contemplate expenditure of \$300,000 to \$500,000.

Ark., Arkansas City.—Levee.—Board of State Engineers, 213 New Orleans Court Bldg., New Orleans, La., will receive bids

until March 30 for construction of Leuca levee in Desha county, Arkansas, on right bank of Mississippi River, 12 miles above Arkansas City; contents, 350,000 cubic yards. (See "Machinery Wanted.")

La., Madison Parish.—Levee.—Levee Board awarded contract to Helgason Bros. and Clarke, Vicksburg, Miss., to construct 280,000 yards of levee work in Madison and East Carroll parishes.

La., New Orleans.—Jetty Work.—Christie & Lowe of New Orleans are lowest bidders at \$670,182 for extension work on jetties of Southwest Pass at mouth of Mississippi River; contract calls for large quantity of brush mattresses and broken stone.

La., New Orleans.—Filling.—Orleans Levee Board awarded contract to Hampton-Keenleyside Company, New Orleans, at 237 cents per cubic yard for filling bulkhead on Commercial Front, between St. Mary and Terpsichore Sts., in First Municipal District; work will require 5000 feet of filling.

Md., Baltimore.—Dredging.—City awarded contract to Maryland Dredging & Contracting Co., 803-805 Fidelity Bldg., Baltimore, for dredging work for one year; contract will amount to about \$25,000; excavation, about 203,000 cubic yards from docks and channels of Baltimore harbor.

Md., Lutherville.—Tunnel.—Towson & Cockeysville Electric Railway Co., James S. Nussear, secretary, Lutherville, will construct tunnel under Seminary Ave. (See Bridges, Texas, Md.)

S. C., Charleston.—Coal Piers.—Holston Corporation has legislative authority to construct coal piers on Town Creek, where it is reported several hundred thousand dollars will be expended. Corporation is controlled through Clinchfield Coal Corporation of Spartanburg, S. C., and Carolina, Clinchfield & Ohio Railway, George L. Carter, president, Johnson City, Tenn., and Mark W. Potter, chairman, 24 Broad St., New York. (Previously mentioned.)

Tex., Matagorda.—U. S. Government awarded contract to Bowers Southern Dredging Co., Galveston, Tex., for construction of 22 miles of intercoastal canal from Matagorda to mouth of Brazos River, near Velasco, Tex.; Major G. P. Howell, U. S. Engineer, in charge, Galveston, Tex. (Further facts previously mentioned.)

Tex., Rockport.—Wharves, etc.—Rockport & Port Arkansas Railway, C. G. Johnson, president, contemplates building wharves, docks and buildings, about two miles of trestles and one steel bridge in connection with construction of railroad between Rockport and tidewater on Harbor Island; Percival & Son of Rockport are engineers and contractors.

MISCELLANEOUS ENTERPRISES

Ala., Alexander City.—Automobiles.—Alexander City Motor & Supply Co. incorporated with \$3000 capital stock by J. W. Stevenson, T. H. Sheet, P. S. Nolin, Sr., and others.

Ala., Birmingham.—Publishing.—Standard Publishing Co. incorporated with \$2000 capital stock; W. J. Long, president; W. D. Taylor, vice-president; F. W. Sterling, secretary; R. A. Mickle, treasurer; Jim H. Edmondson, general manager.

Ala., Birmingham.—Publishing.—McConleo Magazine Publishing Co. incorporated with \$5000 capital stock; F. A. McConleo, president; D. P. McConleo, secretary-treasurer.

Ala., Birmingham.—Heating and Plumbing.—Selman Heating & Plumbing Co. will install and repair heating, plumbing and electric work; J. A. Selman, president and treasurer; W. C. Lehr, first vice-president; Frank B. Carpenter, secretary. (Recently reported incorporated with \$15,000 capital stock.)

Ala., Montgomery.—Printing.—Brown Printing Co. is having plans prepared by E. J. Ostling & Son, 516 Alston Bldg., Tuscaloosa, Ala., for remodeling building.

Ala., Tuscaloosa.—Garage.—Harry N. Edlins has plans by E. J. Ostling & Son, 516 Alston Bldg., Tuscaloosa, for garage.

Ark., Conway.—Laundry.—A. H. White, J. W. Akin and C. B. Akin will establish steam laundry; machinery purchased; arranged with Halter Bros. for erection of brick building.

Ark., Little Rock.—Grain Elevator.—Darragh Warehouse Co. is having plans prepared by Kaucher, Hodges & Co., Memphis, Tenn., for grain elevator; fireproof construction; capacity, 50,000 bushels; further details not available at present. (Recently noted.)

Fla., Pensacola.—Transportation.—Florida Tow Boat Co. incorporated with \$20,000 capital stock; I. H. Aiken of Pensacola is president and general manager; R. E. L. McCaskill, Freeport, Fla., vice-president; Nimrod McGuire, Freeport, Fla., secretary-treasurer.

Ga., Macon.—Electrical Contracting.—Singleton Smith Company incorporated with \$6000 capital stock by W. H. Singleton and Ben C. Smith.

Ga., Rome.—Garage.—Etowah Garage Co. incorporated with \$1000 capital stock and privilege of increasing to \$10,000 by John J. Seay and C. H. Buquo; will occupy erected building.

Ky., Louisville.—Hardware.—Nieder Bros. & Co. incorporated with \$15,000 capital stock by Henry Nieder, Henry Nieder, Jr., and J. C. Kirchdorfer.

Ky., Louisville.—Printing.—Ellis Printing Co. incorporated with \$10,000 capital stock by H. H. Ellis, William Koenig and J. W. Ellis.

Ky., Louisville.—Automobiles.—Miles Auto Co. increased capital stock from \$10,000 to \$20,000.

La., Donaldsonville.—Towing.—Mississippi River Towing Co. incorporated with \$15,000 capital stock; Arthur S. Rusk, president; Cecilien Esneault, vice-president; Louis N. Boston, secretary-treasurer.

Md., Baltimore.—Contracting.—Southeastern Jail Construction Co. incorporated with \$5000 capital stock by Elmer J. Jones, Law Bldg.; William W. Lingenfelder and Augustus Davis, Jr.

Md., Baltimore.—Contracting.—United Building Co. incorporated by Frederick E. Beall, 213 St. Paul St.; Charles Husted Montgomery and Henry Y. Braedy.

Md., Baltimore.—Contracting.—James T. Farley & Son incorporated by James F. Farley, 43 Franklin Bldg.; Thomas J. McDonald and Isabella J. Farley.

Md., Baltimore.—Garage.—Lozier Motor Co., Detroit, Mich., awarded contract to J. L. Robinson, 1325 Hollins St., Baltimore, to erect garage and salesroom at North and Maryland Aves.; one story; concrete; 47 feet square; cost \$6000 to \$7000; plans by C. M. Anderson, 324 N. Charles St., Baltimore. (Recently mentioned.)

Md., Baltimore.—Garage.—Gottlieb-Bauernschmidt-Straus Brewing Co., Frederick H. Gottlieb, manager, Hanover and Conway Sts., awarded contract to John Benschel, 2010 E. Lafayette Ave., to erect garage at Chester and Oliver Sts.

Md., Oakland.—Garage.—Lee F. Hoffman, manager Hoffman Garage at Meyersdale and Bedford, Pa., and A. D. Naylor of Oakland will erect garage; three stories; 45x70 feet; brick; day labor.

Miss., Vicksburg.—Garage.—New building, to be occupied by Vicksburg Automobile Co., J. H. Hemper, president, is under consideration; plans not made; E. J. Bomer is interested. (Recently reported burned.)

Mo., Kansas City.—Automobiles.—Midland Automobile Co. organized with Charles A. Emerson, president and general manager; will be located at 1625 Grand Ave.

Mo., St. Louis.—Publishing.—Sport & Stage Publishing Co. incorporated with \$2000 capital stock by Carl Zork, H. W. Lanigan, Geo. J. Ghio and John A. Talty.

Mo., St. Louis.—Contracting.—R. M. Gillespie Bricklaying & Contracting Co. incorporated with \$5000 capital stock by Robert M. Gillespie, Henry J. Witte, Jennie M. Gillespie, Roberta M. Gillespie and Joshua Laws, Jr.

N. C., Greensboro.—Publishing.—Hildebrand-Crater Publishing Co. incorporated with \$100,000 capital stock by W. A. Hildebrand, Geo. B. Crater and Charles H. McKnight.

N. C., Greensboro.—Publishing.—Telegram Company incorporated with \$100,000 capital stock by J. T. Fain, H. G. Braxton, Mrs. A. R. Fain and others.

Okla., Muskogee.—Contracting.—Warner Construction Co. incorporated with \$3999 capital stock by C. C. Goodman of Fort Smith, Ark.; Fred E. Turner of Muskogee and Campbell Russell of Warner, Okla.

Okla., Hollis.—Publishing.—American Publishing Co. incorporated with \$2000 capital stock by W. B. Groves, C. W. King, J. W. Coley and others.

Okla., McAlester.—Construction.—National Construction Co. incorporated with \$20,000 capital stock by J. M. Bennett, J. W. Hooks, H. M. Ammons and J. A. Morgan; will contract to construct railroads and electric railways.

Okla., Oklahoma City.—Contracting.—Monolith Construction Co. incorporated with \$35,000 capital stock by Charles H. Owen, John Bowen and W. A. Lybrand.

Okla., Tulsa.—Drilling.—Cunningham Drilling Co. incorporated with \$4000 capital stock by W. H. Cunningham of Beaumont, Tex.; Seth Ely and W. E. Parker, both of Tulsa.

S. C., Wellford.—Construction.—Berry-Fortune Construction Co. (recently reported in-

corporated with \$10,000 capital stock) will conduct general concrete construction, making specialty of dam and power-house work; A. L. Berry, president, secretary and treasurer; C. A. Fortune, manager.

Tenn., Dyersburg.—Laundry.—West Tennessee Investment Co. has plans by and awarded contract to B. Wickersham, Mayfield, Ky., for erection of laundry building; 40x50 feet; slow-burning construction; steam heat; electric lighting; cost \$7250. (See "Machinery Wanted.")

Tex., Brownsville.—Abattoir.—City voted issuance of \$3000 to repair slaughter-house. Address The Mayor. (Recently mentioned.)

Tex., Dallas.—Feed and Fuel.—Acers Feed & Fuel Co. incorporated with \$30,000 capital stock by A. E. Acers, W. B. Gay, Berry Starks and Lee Holsenback.

Tex., Houston.—Amusement Resort.—George M. Jenks and Clark Cox will establish pleasure resort at Magnolia Park; improvements will include carousels, scenic railroad, theaterium with seating capacity of 2500, etc.

Tex., Houston.—Printing.—Houston Printing Co. (recently noted to increase capital stock to \$300,000) has no plans for present improvements, but contemplates improvements in future.

Tex., Sherman.—Well Drilling.—Green Deep Well Co. incorporated with \$3000 capital stock by Dupont B. Lyon, R. A. Chapman, Jr., W. L. Green and others.

Tex., Spur.—Hardware.—Spur Hardware Co. incorporated with \$10,000 capital stock by L. H. Perry, T. H. Perry and N. A. Baker.

Va., Richmond.—Publishing.—Farmers' Publishing Co., 809 E. Franklin St., will publish "Farm Life Bulletin"; no building plans ready for announcement; J. Oscar Barrett, president and manager; C. E. Harrison, vice-president; C. J. Rostrop, secretary-treasurer. (Recently reported incorporated with \$500 capital stock. Names slightly incorrect in former notice.)

Va., Staunton.—Publishing.—Staunton Speculator Corporation incorporated with \$5000 capital stock; H. E. West, president; H. J. Taylor, secretary; W. E. Hileary, treasurer.

W. Va., Clarksburg.—Automobiles.—Clarksburg Automobile Co. incorporated with \$10,000 capital stock; will occupy 40x120-foot building erected by Lowndes & Chorpensing, Clarksburg; George B. Chorpensing, president; C. F. Lucas, vice-president; C. B. Alexander, secretary-treasurer; E. R. Rinord, manager.

MISCELLANEOUS FACTORIES

Ala., Birmingham.—Beverages.—Cola-Nip Co. incorporated with \$15,000 capital stock; F. L. Hendricks, president; J. B. Ferguson, vice-president; T. S. Williams, secretary; W. B. Currie, treasurer; Roy S. Hartwell, business manager.

Ala., Birmingham.—Aeroplanes.—Zell Aeroplane Co. organized with \$500,000 capital stock. Robert R. Zell is president; H. G. McLaws, vice-president; J. I. Ellison, secretary-treasurer.

Ala., Gadsden.—Coco-Cola.—Alabama Coco-Cola Co. will erect brick building to be equipped with bottling machinery; will also contain offices.

Ark., Alma.—Soap.—Alma Soap Manufacturing Co. incorporated with \$10,000 capital stock; C. A. Starbird, president; J. J. Yoes, vice-president; Wm. Sparling, secretary; T. R. Murphy, treasurer.

Ark., Fort Smith.—Beds.—Wallace Adjustable Bed Co. incorporated with \$100,000 capital stock; John M. Wallace, president; R. C. Bollinger, vice-president; Francis R. McKinzie, secretary, and W. O. Caldwell, treasurer.

Ark., Little Rock.—Paint.—Bartholomew Paint Co. incorporated with \$15,000 capital stock; W. A. Turner, president; C. A. Bartholomew, vice-president; C. S. Gordon, secretary-treasurer.

Fla., Jacksonville.—Signal Device.—Ruthven Railway Signal Co. is being organized to manufacture combination signal and train-stopping device. A. L. Ruthven is manager.

Fla., Key West.—Gas Plant.—John C. Reed and C. E. Starr, Philadelphia, Pa., contemplate constructing gas plant; applied to City Council for franchise.

Fla., Pensacola.—Boats.—Pensacola Boat Building Co. incorporated with \$10,000 capital stock by Sidney D. Davis, W. B. Ferriss and H. G. De Silva; will establish plant to repair launches, sailboats, etc.; dredge channel and install berths for about 50 launches.

Fla., Tampa.—Cigars.—Antonio Céspedes Company, J. M. Towne, president, will manufacture cigars; daily capacity, 1000 to 5000; will not at present erect building. (Recently reported incorporated with \$20,000 capital stock.)

Fla., Ybor City, Independent Station of Tampa-Washboards.—C. W. Kennon, 2217 Seventh Ave., will establish plant; has let contract for board frames and galvanized-iron binders, which he will assemble with corned for washboards.

Ga., Buford-Leather.—Bona Allen Company is promoting establishment of tannery and plant for manufacturing leather and leather goods.

Ky., Paducah-Buttons.—Pioneer Pearl Button Co., Muscatine, Iowa, is considering establishment of pearl-button factory.

La., Abbeville-Sugar.—Abbeville Sugar Co., authorized Wilfred J. Gaidry, general manager, Houma, La., to secure bids for construction of sugar mill to have daily capacity of 600 to 700 tons of sugar.

La., Adeline.—Oxnard & Sprague Co. has closed contracts for central refinery costing \$500,000, to be constructed on Adeline plantation; Honolulu Iron Works, Honolulu, Hawaii, engineers and architects; mill and crusher contract (awarded) includes 12-roller mill and crusher to cost \$103,000; equipment has been arranged for; cost of evaporators \$26,000; buildings to cost over \$60,000; contracts let to Virginia Bridge & Iron Co., Roanoke, Va.; bids open, but contracts not yet let for centrifugal machines and boilers. In this connection Adeline plantation has lately been sold in small farms, purchasers to raise sugarcane to be manufactured at refinery. (Previously noted.)

La., Eunice-Rice.—Eunice Rice Mill Co., recently reported incorporated with \$60,000 capital stock, will erect 1200-barrel capacity rice mill; ordinary and mill construction; sprinkler system; day labor; machinery mainly purchased; Jacques Trautman, president; E. E. Paramore and James J. Lewis, vice-presidents; W. H. Hunter, Jr., secretary-treasurer. (See "Machinery Wanted.")

La., Delcambre-Sugar.—Delcambre Sugar Co. contemplates increasing capacity by erection of larger mill.

La., Erath-Sugar.—Erath Sugar Co. contemplates increasing capacity by erection of larger sugar mill.

La., Angola-Sugar Refinery.—Board of Control of State Penitentiary (A. G. Kilgore, C. A. Gondran and others), Baton Rouge, La., are arranging for construction of proposed sugar refinery; plans prepared.

La., Homer-Car Steps.—American Extension Car Step Co. organized with E. S. Mitchell, president; G. A. Campbell, vice-president; W. C. Merry, secretary-treasurer.

Md., Baltimore-Mucilage, etc.—Baltimore Paste Co. incorporated with \$10,000 capital stock by George J. Conly of Philadelphia, Pa., and others; secured building at 1429-1435 Fairmount Ave. and will manufacture mucilage, wallpaper paste, etc.; contract for machinery awarded; Thomas Charles Williams of 435 Equitable Bldg., Baltimore, is attorney for the company.

Mo., Hannibal-Bags.—Hannibal Bag Co. incorporated with \$30,000 capital stock by C. R. Hamilton, George T. Hamilton and Dora E. Hamilton.

Mo., Joplin-Powder.—Miners' Powder Co. incorporated with \$5000 capital stock by O. C. Grove, A. J. Hamilton and D. F. Boyd.

Mo., Kansas City-Motor Boats.—Kansas City Motor Boat Co. organized by O. C. Smith (manager Kansas City Structural Steel Co.) and H. E. Myers of St. Louis, Mo.; leased building at 7133 Independence Rd. and will equip for manufacturing motor boats.

Mo., Kansas City-Motors.—Bond Motor Co. incorporated with \$15,000 capital stock by George A. Bond, L. W. Lease and E. A. Bond.

Mo., St. Louis-Corsets.—Kalamazoo Corset Co., J. H. Hatfield, president and general manager, Kalamazoo, Mich., contemplates establishment of factory; plans not determined.

Mo., St. Louis-Beverages.—Phos-Ferrone Bottling & Pure Soda Co. incorporated with \$15,000 capital stock by Henry Koch, A. D. Brockan and August H. Moellman.

Mo., St. Louis-Filterers.—American Filters Co. incorporated with \$200,000 capital stock by J. W. Willen, Louis Lipman, Jr., and Homer Carroll.

Mo., St. Louis-Clothing.—Freedman-Zatlin Manufacturing Co. incorporated with \$25,000 capital stock by Levy Freedman, Etta Zatlin, Sam Freedman and Charles S. Zatlin.

Mo., St. Louis-Fire Apparatus.—Hansen Continuous Chemical Fire Apparatus Co. incorporated with \$30,000 capital stock by Edward M. E. Hansen, Robert P. Huber, John W. Wiesemann and Isaac P. Gleeson.

N. C., Charlotte-Leather Belting.—Charlotte Leather Belting Co. has purchased

property on corner of Graham and 5th Sts.; awarded contract to E. H. Overcash for remodeling and erection of addition to be used for offices; new plant will be 85x185 feet; two stories; to be completed by May 1.

N. C., High Point-Organ.—Shipman Organ Co., E. A. Snow, president, will rebuild plant recently reported burned; 60x50 feet; three stories; will install machinery. (See "Machinery Wanted.")

N. C., Salisbury.—The Leland Co., W. W. Leland, president, 557 Fifth Ave., near 46th St., New York, adopted plans for proposed granite-cutting plant; orders have been placed for 35-ton electric traveling crane, granite saws, polishers and pneumatic tools.

N. C., Windsor.—Windsor Manufacturing Co. incorporated with \$25,000 capital stock by James H. White, R. W. Johnson and W. J. French.

Okla., Oklahoma City—Remedies.—No other Remedy Co. incorporated with \$25,000 capital stock by James O. Ackles, Harry C. Ulrich and Frank P. Shepard.

Okla., Oklahoma City—Rubber Goods.—Oklahoma Rubber Co., H. E. Swan, secretary (recently noted to establish plant to manufacture rubber goods), will open bids April 15 for erection of reinforced concrete fire-proof building; 100x200 feet; cost \$25,000; machinery mainly purchased. (See "Machinery Wanted.")

Okla., Tulsa-Tents and Awnings.—Tulsa Tent & Awning Co. incorporated with \$5000 capital stock by James Constantine, Olive Constantine and William L. Crowder.

S. C., Charleston—Hollywood Manufacturing Co. incorporated with \$30,000 capital stock; J. M. Hethington, president; W. A. Smith, vice-president; B. B. Halstead, secretary-treasurer.

Tenn., Chattanooga—Bottling.—Monarch Water Ozo-Olo Bottling Co. incorporated with \$25,000 capital stock by J. E. Moody, C. E. Buck, C. W. Bourne and others.

Tenn., Knoxville—Airbrake Indicators.—Snyder Airbrake Indicator Co. has not decided on building or machinery for manufacture of machine. (Recently noted incorporated with \$50,000 capital stock by J. B. Jones and others.)

Tenn., Lexington—Marble Works.—Lexington Monumental Works will be incorporated with C. P. Wilson president, Joseph W. Fuller general manager and secretary, W. H. Lancaster treasurer; will manufacture and import granite monuments and statuary; recently noted organized. (See "Machinery Wanted.")

Tenn., Memphis—Household Specialties.—R. M. Austin, Seattle, Wash., and L. R. Van Kirk, Boise, Iowa, secured location at 106 N. Front St., and will install equipment for manufacturing household specialties.

Tenn., Newport—Pulp Mill.—Pigeon River Lumber Co. will, it is reported, install pulp mill at plant located at Crestmont.

Tenn., Knoxville—Smoke Consumer.—Knoxville Smoke Consumer Co. incorporated with \$25,000 capital stock; T. I. Stephenson (president Knoxville Iron Co.) is president and treasurer; W. P. Davis, O. A. Brown, S. H. Sparks and L. M. G. Baker are also interested.

Tex., Dallas—Spring Beds, etc.—Olive & Meyer Manufacturing Co. increased capital stock from \$350,000 to \$400,000.

Tex., Fort Worth—Shirts.—The Fitzhugh Shirt Co. incorporated with \$5000 capital stock by V. B. Fitzhugh, C. M. Rich and Frank S. Quilter.

Tex., Fort Worth—Harness and Saddles.—T. R. James & Sons will increase capital stock from \$200,000 to \$300,000; will enlarge factory and increase output.

Tex., Houston—Incubators.—Alonzo Gerard, Austin, Tex., purchased site at Magnolia Park and will establish plant for manufacturing incubators.

Va., Kenbridge—Gas.—Kenbridge Gas & Light Co. incorporated with \$5000 capital stock; F. W. Clark, president; A. D. Hobgood, vice-president; T. W. Ozlin, secretary-treasurer.

Va., Lynchburg—Fertilizers, etc.—Miller Guano Co., 111 9th St., near Main (recently noted incorporated with \$30,000 capital stock), deals in commercial fertilizers, materials, chemicals, etc.; W. P. Miller, president; W. A. Miller, vice-president; J. W. Womack, secretary-treasurer. (Previous notice slightly incorrect.)

Va., Portsmouth—Candy.—Alexander Candy Co., James Alexander, president, recently reported incorporated with \$15,000 capital stock, will operate plant with daily capacity of 1000 pounds of candy. (See "Machinery Wanted.")

Va., Pulaski—Smokeless Burners.—Huddle Smokeless Burner Corporation incorporated with \$15,000 capital stock; C. D. Huddle, presi-

dent, Draper, Va.; M. W. Stevens, vice-president; A. T. Eskridge, secretary-treasurer, both of Pulaski.

Va., Tenn., Bristol—Glass.—McCloy Glass Co., Mt. Jewett, Pa., will construct 60-blower tank glass plant.

W. Va., Bluefield—Gas.—Bluefield Gas & Power Co. incorporated with \$350,000 capital stock by W. E. Ross, J. Elliott Hall, John F. Land and others.

W. Va., Parkersburg—Vitrolite.—The Vitrolite Co. has adopted plans and specifications for additional buildings; new structure will be L-shape, one extending east from main building for 355 feet, and other north, being 115 feet long; equipment to be installed will include additional furnaces, 175 feet of lehr for annealing vitrolite, additional 30,000-pound tank, 16-foot rubbing bed, etc.; when new buildings are completed plant will cover 43,500 square feet. (Recently mentioned to make improvements and double capacity of plant.)

W. Va., Parkersburg—Paper Boxes.—West Virginia Paper Products Co., Forest C. Goff, president, 110 3d St., will erect two-story 40x90-foot concrete building, to cost \$3500; date of opening building proposals not set; will purchase new machinery costing approximately \$1500; daily capacity, 5000 paper boxes.

W. Va., Parkersburg—Gasoline Plant.—Natural Gasoline Extraction Co. (recently reported incorporated with \$50,000 capital stock) has purchased machinery and will manufacture gasoline; E. B. Rich, president; H. D. Wilson, secretary; G. E. Pope, manager.

W. Va., Wheeling—China.—Warwick China Co., C. E. Jackson, president, will manufacture new grade of china; no changes in plant or machinery.

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, SHEDS, ETC.

N. C., Hickory.—Carolina & Northwestern Railway, L. T. Nichols, general manager, Chester, S. C., awarded contract to Roanoke Bridge Co., Roanoke, Va., to construct shops; 50x60 feet; two 20x60 feet and two 30x80 feet; brick foundation; frame, with galvanized-iron siding. (Mentioned in December.)

W. Va., Sabraton.—Morgantown & Kingwood Railroad, J. K. Monroe, chief engineer, Kingwood, W. Va., will rebuild machine shops recently reported burned; new structure will be mainly of concrete, and will include machine shops, car shops, roundhouse and engine-house.

ROAD AND STREET WORK

Ala., Bessemer.—City's plan for paving Broad and Conception Sts. includes 33,000 square yards of wood-block paving on four-inch base of concrete; Wright Smith, engineer; all material purchased except wood blocks; contract recently noted awarded to Sullivan & Long, Bessemer, Ala., at \$65,670.

Ala., Selma.—Dallas county awarded contract to R. B. Cook & Co. at \$12,000 to construct 6½ miles of road. (Recently mentioned.)

Ala., Selma.—Dallas county will grade and gravel 11½ miles of road, beginning at Plantersville and extending south toward Selma; bids received until April 3; G. B. Thomas, County Engineer. (See "Machinery Wanted.")

Ala., Troy.—City Council adopted plans and specifications for paving on North Three Notch and College Sts. Address The Mayor. (City recently noted to pave all sidewalks on North Three Notch St.)

Ark., Little Rock.—City awarded contract to M. D. L. Cook of Little Rock for construction of 6800 square yards of asphalt paving on 10th St. from Main to City Park; cost \$15,000; E. A. Kingsley, superintendent of Public Works. (Recently noted.)

Fla., Bradenton.—Manatee County Commissioners awarded contract to J. J. Farrar of Manatee Livery Co., Manatee, for construction of about seven miles of road along Range Line Rd., beginning at Manatee and extending south; construction to be under supervision of J. O. Gates; bids for other road work will be received until March 25.

Fla., Brooksville.—Town will vote on issuance of \$2000 of bonds for constructing sidewalks and \$7000 for paving streets; W. A. Thaxton, Town Clerk.

Fla., Jacksonville.—Jacksonville Electric Co., Stone & Webster Engineering Corporation, engineer in charge, 147 Milk St., Boston, Mass., will expend \$824,412 for improvements, to include: Rebuild and pave Beaver St. from Davis to Coring, \$3930; rebuild and pave Coring St. from Beaver to Cleveland, \$4264; rebuild and pave Enterprise St., Cleveland to Myrtle Ave., \$7865; rebuild and pave Church

St., Johnson to Stewart, \$3225; repave East Bay St. from Main to Market, \$7590; repave West Bay St. from Main to Bridge, \$25,515; rebuild and pave Davis St. from Kings Rd. to 8th St., \$24,355; rebuild and pave State St. from Main to Kings Rd., \$18,922; pave Washington St. and May St., \$1350; pave Bay St. from Cleveland to Myrtle Ave., \$2200.

Fla., Jacksonville.—City awarded contract to F. J. Trout of Jacksonville for grading, paving and curbing at Dignan Park; contract price, \$1.27 per square yard for tile walk and 9 cents per running foot for curbing.

Fla., Jasper.—Hamilton county will grade 30 miles of road; County Commissioners will receive bids April 3; J. B. Wetherington, Clerk Circuit Court. (See "Machinery Wanted.")

Ga., Atlanta.—City will pave North Blvd. from Ponce de Leon Ave. to near 10th St. with creosoted wooden blocks; about 820 square yards; bids received until April 3; R. M. Clayton, Chief of Construction. (See "Machinery Wanted.")

Ky., Louisville.—City will pave Wilson, 5th and Jefferson Sts. and various alleys, total distance 14,600 square yards, with vitrified blocks; bids received until March 27 by Board of Public Works.

La., Alexandria.—Rapides Parish Police Jury will consider election to vote on \$200,000 of bonds for road improvements.

La., Baton Rouge.—East Baton Rouge Parish will surface with gravel about 20 miles of road; work to be under supervision of State Highway Commission and Board of State Engineers; amount available \$30,000; F. A. Woods, secretary, Police Jury. (Recently noted to vote on \$375,000 bond issue for road construction and erection of courthouse.)

La., Melville.—Town will lay eight blocks of concrete sidewalks; bids to be opened March 27. Address Town Clerk.

Md., Easton.—Talbot and Caroline County Commissioners invite new bids until April 3 for grading and macadamizing .83 mile of Dover Bridge Rd., and for construction of 70-foot steel drawbridge over Choptank River, recently noted contracted for; Joseph B. Harrington, clerk to Talbot County Commissioners, Easton, Md.; William H. Anderson, clerk to Caroline County Commissioners, Denton, Md. (See "Machinery Wanted.")

Md., Snow Hill.—State Roads Commissioners, Union Trust Bldg., Baltimore, Md., authorized Worcester County Commissioners, Snow Hill, to begin construction of proposed road through Pocomoke City and Snow Hill; cost \$10,000 to \$14,000; work to be under supervision of County Commissioners. State Roads Commission also authorized advertisement for bids on road from Monrovia to Newmarket in Frederick county.

Miss., Columbus.—City Council ordered curb and gutter, catch-basins and drain pipe to be laid in principal business streets for nine blocks; E. S. Donnell, Mayor; C. L. Wood, engineer. (See "Machinery Wanted.")

Miss., Grenada.—Grenada County Supervisors will open bids in April for road work, construction of steel and reinforced-concrete bridge and repair of Cane Creek bridge, District No. 5. (See "Machinery Wanted.")

Miss., Meridian.—Lauderdale county will construct Causville, Marion, Poplar Springs and Arundel Springs Rds.; bids will be opened April 4, totaling 18½ miles; novaculite for surfacing material; salt-glazed vitrified 15-inch to 24-inch clay pipe for culverts; corrugated metal pipe or cement for other water ways; W. P. Moore, engineer; C. C. Dunn, chairman Good Roads Commission. (See "Machinery Wanted.")

N. C., Carthage.—Moore county will vote April 4 on issuance of \$100,000 of bonds for road construction. Address County Commissioners.

N. C., Elizabeth City.—City has \$120,000 available for paving; Baltimore block on sand base; R. A. Colvin, City Engineer. (Contract recently noted awarded to F. J. McGuire, Norfolk, Va., at \$1.42½ per square yard.)

N. C., Newbern.—City awarded contract to Georgia Engineering Co. of Augusta at about \$50,000 to furnish material and lay 30,000 square yards of vitrified-brick paving. (Contract recently reported awarded.)

Okla., Hugo.—City will let contract March 29 for paving 30 blocks asphalt on 6-inch base; R. L. Jones, Mayor. (Recently noted.) (See "Machinery Wanted.")

Okla., Oklahoma City.—City awarded contract to Cleveland Trinidad Paving Co., Cleveland, Ohio, at \$147,185.90 for street paving, and to Western Paving Co. at \$499,004.27 for street paving; W. C. Burke, City Engineer. (Recently mentioned.)

Tenn., Cookeville.—Putnam county will award contract April 10 for road construction amounting to about \$100,000; J. N. Cox, secretary Good Roads Commission. (Bond issue of \$100,000 recently reported voted.) (See "Machinery Wanted.")

Tenn., Knoxville.—City will pave curb and gutter North Central and Eleanor Sts.; bids received until April 5; W. P. Chandler, recorder. (See "Machinery Wanted.")

Tenn., Chattanooga.—Hamilton county, Joe V. Williams, county judge, is preparing to issue \$500,000 of bonds for road construction; Ed. Bass has been elected chairman and E. E. Betts engineer in charge for Hamilton County Road Commission. Mr. Betts advises Manufacturers Record that construction details have not been determined.

Tenn., Memphis.—City Commissioners plan expenditure of nearly \$2,000,000 during next 12 months for improvements to 36 miles of streets; opened bids March 14 (as lately stated) for 8500 square yards vitrified brick, 80,000 square yards of tar-macadam and 10,000 square yards wood-block pavement; J. H. Weatherford, City Engineer.

Tex., Aspermont.—Stonewall County Commissioners awarded contract for construction of six miles of road leading from Peacock, Tex.

Tex., Beaumont.—Jefferson County Commissioners awarded contract to grade 20-foot road from El Vista to West Port Arthur, distance of about four miles.

Tex., Brownsville.—City voted issuance of \$80,000 of bonds for street paving. Address The Mayor. (Recently mentioned.)

Tex., Dallas.—City will pave Ash Lane, Parry and Fourth Aves., Elihu, Gunther and Jackson Sts.; bids received until March 21; J. B. Winslett, City Secretary. (See "Machinery Wanted.")

Tex., Dallas.—Municipal Commissioners awarded contract to Standard Engineering & Construction Co. of Dallas at \$74,824.90 to pave Jefferson St. from 10th to Tyler Sts., Oak Cliff; rock asphalt to be used for surfacing.

Tex., Dallas.—Texas Bitulithic Co. has completed Main St. paving lately noted. (Recent mention should have read "improvements accepted.")

Tex., Dallas.—City will pave Second Ave. from Gulf, Colorado & Santa Fe Railway to Grand Ave., and 10th St. from Lancaster Ave. to Polk St.; bids received until March 29; J. B. Winslett, City Secretary. (See "Machinery Wanted.")

Tex., Dallas.—City awarded contract to Texas Bitulithic Co. of Dallas at \$2.30 per square yard (total \$69,026.88) for paving of Live Oak St. from Cantrelog to Munger Bvd with bitulithic; foundation to be of 5-inch concrete; Municipal Commissioners also awarded contract to Municipal Paving Co. of Dallas for resurfacing and repairing asphalt paving on Lamar St. from Commerce to Wood St. and tracks of Houston & Texas Central Railroad; Commissioners adopted resolution and invited bids for paving of Germania St. from Swiss to Ross Ave.; J. B. Winslett, City Secretary; William Doran, Street Commissioner.

Tex., Fort Worth.—City will improve W. Reiknap St. from Houston St. to Royal Ave.; about 6,710,894 square yards; bids received until March 28; J. H. Maddox, Commissioner of Streets and Public Property; W. J. Estes, City Secretary. (See "Machinery Wanted.")

Tex., Menard.—Menard County Commissioners awarded contract for improvements on London and Junction Rds., for which \$3000 has been appropriated; J. T. Westbrook has been appointed Road Commissioner to supervise work.

Tex., Paris.—Precinct No. 1, Lamar county, will vote April 22 on bond issue of \$300,000 for road construction; T. J. Record, president, Lamar County Good Roads Association. (Recently noted.)

Tex., Stamford.—City awarded contract to Ockander Bros., Waco, Tex., for paving four blocks with Hassam composition.

Tex., Waco.—A. W. Koch & Co. awarded contract to O. Johnson & Co., Waco and Hillsboro, for sidewalks and curb construction; grading and paving bids opened March 16; bids on remaining work to be advertised later; will expend \$30,000 on sidewalks and curbs and \$20,000 on paving; M. J. McCombs, 246 Main St., Dallas, Tex., engineer in charge; these improvements at Highland Place. (See "Land Developments.")

Va., Farmville.—Town Council ordered repaving of Main St.; estimated to cost \$14,200. Address Town Clerk.

Va., Roanoke.—City, it is reported, will award further macadam contracts March 30; bond issue is \$250,000; contracts to amount of \$180,000 for construction of streets, gutters

and curbing were recently noted awarded to J. T. Muddleton & Co., 620 Rorer Ave. S. W., and others; F. L. Gibboney, City Engineer.

Va., Washington.—Bids will be received at clerk's office of Rappahannock county until March 29 for construction of 7½ miles of macadam road from Flint Hill to Warren county line; P. St. J. Wilson, State Highway Commissioner, Richmond, Va. (See "Machinery Wanted.")

SEWER CONSTRUCTION

Fla., South Jacksonville.—City will vote April 6 on issuance of \$60,000 of bonds for construction of sewerage and electric-light systems. Address The Mayor.

Ga., Atlanta.—Bond Commission (F. A. Quillian, chairman) and Sewer Committee of City Council awarded contract to Chester A. Dady of New York at \$171,818 to construct Intrenchment Creek disposal plant proper; size of filtering bed, two acres; to Noll Construction Co., Chattanooga, Tenn., to construct intercepting sewer; bid for long section is \$36,634 for plain concrete and for short section, \$28,629 for plain concrete; to Nichols Construction Co. at \$7170 for construction of Dubose aqueduct; Mackle-Crawford Company at \$7400 for Collier aqueduct and Dysard Construction Co. at \$5400 for Parker aqueduct; aqueduct to be of concrete; contractors of Atlanta; bids will be recommended to City Council for acceptance; Herling & Fuller, 170 Broadway, New York, are engineers; R. M. Clayton, chief of construction. (Call for bids recently noted.)

Ga., Pelham.—City voted issuance of \$25,000 of bonds for improvements of sewer system, etc. Address The Mayor. (See "Water-works.")

Ga., Sparta.—Mayor and City Council will construct sewer system; will receive bids at once; John D. Walker, Mayor. (See "Machinery Wanted.")

Ky., Dawson Springs.—City Sewer Commission is arranging for construction of sanitary sewer system; bonds voted. (Previously mentioned.)

N. C., Black Mountain.—City will vote April 11 on issuance of \$15,000 of bonds for construction of sewer system and water-works; G. W. Stepp, Mayor. (Recently mentioned.)

N. C., Thomasville.—Board of Aldermen voted to issue \$75,000 of bonds at present and \$50,000 more after June assessment for construction of sewer system and water-works. Address The Mayor.

Okla., Tulsa.—City will construct 175-foot extension to 48-inch storm sewer on 4th St. near Owasso Ave.; bids received until March 28; T. C. Hughes, City Engineer. (See "Machinery Wanted.")

Tex., Bryan.—City Council ordered construction of sewer system; supervision of A. B. Carson, City Engineer.

Tex., Cameron.—Hamilton Bros., Chicago, Ill., are lowest bidders at about \$15,000 for construction of sewer system; D. D. Wilson, City Secretary.

Tex., Eagle Lake.—City will vote on issuance of \$30,000 of bonds for construction of sewer system and water-works. Address The Mayor.

Tex., Round Rock.—Round Rock Sewerage Co., incorporated with \$1000 capital stock by C. A. Nelson, J. A. Nelson and A. K. Anderson.

Tex., Synder.—City has plans by Fountain-Shaw Engineering Co., 308 Andrews Bldg., Dallas, Tex., for sewer system; cost \$18,000; day labor. Address City Secretary. (Recently noted.)

Tex., Yoakum.—City will construct sewer system costing \$20,000; survey to be made at once; plans for system promoted by W. W. McVey, secretary Commercial Club. (Previously noted.)

Va., Norfolk.—Board of Control awarded contract to Shaffer & Mowry of Norfolk at \$8017 for construction of concrete drain from Cumberland to Granby Sts.; W. T. Brooke, City Engineer.

TELEPHONE SYSTEMS

Miss., Bond.—City Council granted franchise to Cumberland Telephone & Telegraph Co., Nashville, Tenn., to build and operate telephone exchange; George D. Stockman is manager of Hattiesburg district, Hattiesburg, Miss.

N. C., Guilford College.—Guilford Telephone Co. incorporated with \$6000 capital stock by D. W. Lindley, Lee S. Smith and others.

Okla., Hydro.—Hydro Southwestern Telephone Co. incorporated by Jacob Gresson, D. M. Dill and A. W. Oldham.

S. C., Manning.—Clarendon Telephone Co. incorporated with \$5000 capital stock by I. C.

Strauss and Robert Shelor, both of Sumter, S. C.

Tex., Alpine.—Alpine Telephone Co. incorporated with \$15,000 capital stock by J. E. Mills, W. F. McGaughey and R. T. Burks.

Tex., Barry.—Vest Telephone Co. incorporated with \$20,000 capital stock by D. W. Vest, J. W. Denton, A. H. Elmore and others.

Tex., Beaumont.—Beaumont Telephone Co., Brigham S. Young, president, Adm., Ohio, will expend \$60,000 in improvements; erect substation on 6th St. to be equipped with automatic appliances to accommodate 100 subscribers; contract for building will soon be awarded.

Tex., Denison.—Missouri, Kansas & Texas Railway, A. M. Acheson, acting chief engineer, Dallas, Tex., will construct telephone system from Denison south to Hillsboro via Dallas, and from Hillsboro to Smithville, also along Dallas and Denton branch; copper wire to be used will weigh 210 pounds to mile; system will be for dispatching trains; in addition to telephone system, about 3000 miles of additional telegraph line will be constructed, mostly in Texas.

Tex., Houston Heights.—Houston Automatic Home Telephone Co. is having plans prepared by C. D. Hill & Co., Houston, for substation; cost about \$10,000.

W. Va., Logan.—Curry Farmers' Telephone Co. organized to construct telephone system; has arranged to connect with long distance line of Southern Bell Telephone & Telegraph Co. at Chapmanville, W. Va., station; system will be 10 miles long; A. H. Curry, president; George Barker, secretary; Frank Barker, treasurer; H. C. Carpenter, general manager.

TEXTILE MILLS

Ga., Acworth.—Kult Goods.—Board of Trade is planning organization of company to establish knitting mill.

Ga., Savannah.—Cotton Goods.—Savannah Cotton Mills is, it is reported, considering enlargement during summer.

Mo., Kansas City.—Knit Coats.—Goodenow-Brookfield Knitting Co. increased capital stock from \$10,000 to \$35,000; has 12 knitters driven by electric power.

N. C., Craggy.—Cotton Goods.—French-Broad Manufacturing Co. chartered with \$250,000 capital stock by F. L. Fuller, John F. Wiley, both of Durham, N. C., and others.

S. C., Greenville.—Waste Products.—Crown Cotton Co. chartered with \$35,000 capital stock by R. F. Rowe, Lewis W. Parker, W. E. Beattie and Ellison A. Smyth; will build mill to manufacture cotton-waste products.

Tenn., Cumberland Gap.—Cotton Warps.—Cumberland Gap Woolen Mills, C. E. Goodwin & Sons, lessees, will install machinery for manufacturing cotton warps and six broad looms; has awarded contract.

Tenn., Knoxville.—Knit Union Suits.—Appalachian Mills expects, in near future, to add machinery for spinning yarns and knitting union suits.

Tenn., Knoxville.—Underwear.—Appalachian Mills purchased 64x39-foot building, and will remove to this structure; will probably operate 50 knitting machines and 150 sewing machines. (Lately noted as increasing capital stock from \$50,000 to \$100,000.)

Tex., Cuero.—Sheeting.—Cuero Cotton Factory reorganized as Cuero Cotton Mills; will award contracts in May to erect main mill addition, 60x100 feet and 50x60-foot cell for clothroom and office; overhaul old textile equipment and change to spin coarser yarns; install 2000 spindles, picking machinery, carding equipment, steam-heating plant and humidifying system; expenditure \$50,000. (Recently reported.)

Tex., Fort Stockton.—Rope.—J. H. Bayerley, mentioned last week, plans establishing mill to manufacture rope from lechugilla and Spanish dagger plants; details not determined. (See "Machinery Wanted.")

Va., Winchester.—Cassimeres, etc.—Virginia Woolen Co. expects to add 20 looms, built by Crompton & Knowles Loom Works of Worcester, Mass., and other machinery to correspond; cost about \$15,000. (Lately noted to increase weaving capacity.)

WATER-WORKS

Ala., Gadsden.—City will vote April 24 on issuance of \$50,000 of bonds for completion of water-works and extension of mains; contract for construction work awarded; Hazlehurst & Anderson, Atlanta, Ga., engineers in charge of work now being constructed; contract for laying of mains not let; machinery mainly purchased; W. G. Bellinger, Mayor; further facts recently mentioned. (See "Machinery Wanted.")

Ga., Oglethorpe.—City will vote April 12 on issuance of \$18,000 of bonds for construction

of water-works and electric-light plant. Address The Mayor.

Ga., Eastman.—City had plans made for water-works extension; about three miles 6-inch and 8-inch mains, and about two miles 2-inch galvanized service pipe; material to be purchased and contract for construction let at once; Arthur Pew, engineer in charge, 620 Temple Ct., Atlanta, Ga.

Ga., Macon.—City voted issuance of \$900,000 of bonds, of which \$699,000 will be expended for purchase of Macon Gas Light & Water Co.'s plant and \$201,000 for extensions and improvements; John T. Moore, Mayor. (Previously mentioned.)

Ga., Flowery Branch.—Company will be organized to construct water-works. Address The Mayor.

Ga., Pelham.—City voted issuance of \$25,000 of bonds for improvements to water, light and sewerage systems, and erection of fire-department building, jail and stables. Address The Mayor. (Recently mentioned.)

Ga., Sparta.—Mayor and City Council will construct water-works; will receive bids at once; John D. Walker, Mayor. (See "Machinery Wanted.")

Ky., Dawson Springs.—J. W. Holmes, superintendent of water plant, Paducah, Ky., made survey of city and will prepare plans for water-works; gravity reservoir is to be located on hill southeast of city; water is to be pumped into reservoir from three wells on hill; about 10,000 feet of mains are to be laid; cost \$12,000 to \$15,000.

Md., Baltimore.—Alfred M. Quick, Water Engineer, City Hall, submitted specifications to Water Board for new stokers and economizers, four new boilers and triple-expansion vertical pump to be installed in Mt. Royal pumping station; present capacity is 17,000,000 gallons for consumption and 17,000,000 gallons for reserve, and this will be increased to 30,000,000 gallons for consumption and 30,000,000 gallons for reserve; estimated cost \$175,000 to \$200,000. (Recently mentioned.)

N. C., Black Mountain.—City will vote April 11 on issuance of \$15,000 of bonds for construction of water-works and sewer system; G. W. Stepp, Mayor. (Recently mentioned.)

N. C., Jonesboro.—City awarded following contracts for construction of water-works: To Chattanooga Boiler & Tank Co., Chattanooga, Tenn., at \$2570 for 75,000-gallon tank and tower; Glamorgan Pipe & Foundry Co., Lynchburg, Va., at \$24.25 per ton for 465 tons of pipe; Abbe & Hart, Hickory, N. C., at \$3890 for pipelaying and setting hydrants; White & Platt, Durham, N. C., engineers. (Recently noted.)

N. C., Morehead City.—City will receive bids until April 29 for water-works; plans and specifications on file; G. D. Canfield, chairman, Water-Works Committee. (See "Machinery Wanted.")

N. C., Thomasville.—Board of Aldermen voted to issue \$75,000 of bonds at present and \$50,000 more after June assessment for construction of water-works and sewerage system. Address The Mayor.

N. C., Sanford.—City will construct stand-pipe; 100 feet high, 20 feet in diameter; capacity 225,000 gallons; contract awarded to S. Coffield & Sons, Atlanta, Ga.

Okla., Ada.—City will vote March 21 on issuance of \$150,000 of bonds for extension of water-works. Address The Mayor. (Recent bond issue illegal.)

Tenn., Newport.—Town will vote April 29 on issuance of bonds for construction of water-works; owns two springs, from which water will be piped distance of three miles. Address Town Clerk.

Tex., Brenham.—City contemplates erection of brick building over water-works plant; William Lusk, Mayor.

Tex., Brownsville.—City voted issuance of \$25,000 of bonds to double capacity of water-works. Address The Mayor. (Recently mentioned.)

Tex., Caldwell.—City will open bids April 6 for construction of concrete foundation and 16x100-foot steel standpipe; cost \$2000 to \$3000; J. A. Gray, Mayor; bond issue of \$6000 recently noted voted. (See "Machinery Wanted.")

Tex., Denison.—City (recently noted to vote \$20,000 water-works bonds) is making addition to system; work nearing completion.

Tex., Eagle Lake.—City will vote on issuance of \$30,000 of bonds for construction of water-works and sewerage system. Address The Mayor.

Tex., Hearne.—City will vote on issuance of bonds for construction of water-works. Address The Mayor.

Tex., Red Oak.—Red Oak Deep Well Co. incorporated with \$3500 capital stock by G. L. Ligon, H. Harrison and others.

Tex., Roscoe.—City voted issuance of bonds for construction of water-works. Address The Mayor.

Tex., Snyder.—City has plans by Fountain-Shaw Engineering Co. (not contractors, as recently stated), 308 Andrews Bldg., Dallas, Tex., for water-works; will erect brick and concrete pumping station to cost \$2000, and 100,000-gallon steel tank about 100 feet over all; day labor; will open machinery bids in about 30 days; cost \$27,000; address proposals to City Secretary.

Va., Farmville.—Town Council has perfected plans for municipal ownership of water system; \$65,000 of bonds will be issued, of which \$48,000 will be extended in purchase of plant and balance for improvements and extensions. Address Town Clerk.

WOODWORKING PLANTS

Ala., Foley.—Sash, Doors, etc.—Beckwith & Pepple, M. G. Pepple, president, will open proposals May 1 on 40x100-foot mill-construction building for sash, door and blind factory recently noted; date of opening machinery bids not set. (See "Machinery Wanted.")

Ark., Fort Smith.—Buggies.—Garden City Buggy Co., Garden City, Mo., will, it is reported, establish factory with annual capacity of 3000 to 4000 buggies.

Ark., Prescott.—Staves.—Gund Brewing Co., La Crosse, Wis., will establish stave factory; develop tract of oak timber near Prescott; George A. Hosmer is agent.

Ark., Rector.—Heading, etc.—H. A. Bennett Heading Co., incorporated by E. Vandyke and William Taylor, Jonesboro, Ark., and others; will establish plant for manufacturing slack barrel staves and heading; Mr. Taylor will be in charge.

La., Baton Rouge.—Box Shooks.—Baton Rouge Veneer Works (H. R. McLeod) will rebuild plant recently reported burned; plans not decided; construction by owners; will install sawmill, veneer and box shuck machines; daily capacity about one car box shooks.

Miss., Hazlehurst.—Boxes.—Hazlehurst Box Factory incorporated with \$10,000 capital stock by H. J. Wilson, E. J. Roberts, M. A. Atwood and others.

N. C., Weldon.—Boxes, etc.—Deal-Palmer Company incorporated with \$50,000 capital stock by W. F. Deal, F. L. Palmer and W. G. Hall.

S. C., Chester.—Doors, etc.—Chester Machine & Lumber Co. will rebuild plant for manufacturing doors, sashes, etc. reported burned at loss of about \$20,000; B. M. Spratt and D. P. Crosby, owners.

Tex., Dallas.—Hansen Woodworking Co. incorporated with \$12,000 capital stock by Eugene Hansen, O. A. Hansen and Lydia Hansen.

Tex., Houston.—Handles.—Timpson Handle Co., Timpson, Tex., is considering establishment of handle factory.

Tex., Voith.—Boxes.—Keith Lumber Co., W. C. Keith, general superintendent, contemplates rebuilding of box factory recently reported burned.

Va., Norfolk.—Chairs.—Taylor Chair Co., W. A. Taylor, president, Cleveland, O., is considering establishment of chair factory.

Va., Staunton.—Cooperage.—Staunton Cooperage Co. incorporated with \$25,000 capital stock; N. C. Goodall, president; W. P. Gooch, vice-president; Robert Bender, secretary; W. A. Payne, treasurer. (This is company recently reported to be organized by Mr. Goodall and others.)

W. Va., Exchange.—Staves, etc.—Exchange Lumber Co. organized with Dr. C. E. Jones and A. E. May; will establish plant to manufacture staves and lumber; main office, Gas-saway, W. Va.

BURNED

Ala., Avondale.—Independent Station of Birmingham.—J. L. Smith's residence; S. B. Etheridge's residence at 3817 Avenue C; total loss \$12,000.

Ala., Benton.—C. W. Jones' storehouse; R. J. Staggers' grist mill and electric-light plant.

Ala., Bessemer.—Warehouse owned by T. W. Barden and Bessemer National Bank; loss \$5000.

Ala., Dadeville.—Alabama King Mining Co.'s mill; loss on machinery about \$12,000.

Ala., Dothan.—Farmers' Cotton Oil Co.'s warehouse damaged; loss \$14,000.

Ark., Conway.—Freeman Lumber Co.'s plant; loss about \$50,000. F. J. McClure is manager.

Ark., Gleason.—Gleason Lumber Co.'s plant; loss about \$75,000.

Ark., Little Rock.—Arkansas Brick Co.'s plant; loss about \$15,000; W. W. Dickinson, president.

D. C., Washington.—Baseball park at 7th St. and Florida Ave. N. W., owned by Washington Baseball Club, Thos. C. Noyes, president, 1101 Pennsylvania Ave. N. W.; loss \$20,000; Eisenger Bros.' four buildings; loss \$20,000.

Fla., Apalachicola.—Apalachicola Lumber Co.'s sawmill.

Fla., Pensacola.—Southern Hotel; Mt. Zion Church; Packard Land Co.'s building; Lee Daniel's building; N. J. Lillard's residence; Mrs. Katherine Watson's residence; James M. Mufdon's three cottages; loss about \$70,000.

Ga., Augusta.—Bracey & Bracey's warehouse, owned by Harrison estate; loss \$7000.

Ga., Buena Vista.—W. M. Williams' residence; loss \$5000.

Ga., Kingston.—J. N. McKelvey's building, loss \$3000; De Soto Hotel, loss \$7000; W. A. Jolly's building, loss \$12,000; J. D. Rollins' building, loss \$5000; W. H. Griffin's building, loss \$10,000.

Ga., Marble, R. F. D. from Moultrie.—Winchester Bros.' gin house; estimated loss \$1800.

Ga., Poulton.—J. B. Charles' store; loss \$14,000.

Ky., Bowling Green.—W. Y. McGinnis' stable, loss \$8000; Neale Auditorium, owned by W. D. Neale, Woodburn, Ky., loss \$12,000; R. C. Posey's grocery store, loss \$6000; State Armory, loss \$5000; J. A. Rabold's building, loss \$2500; Warren county courthouse, loss \$5000.

Ky., Campbellsville.—George Gowdy's buildings, loss \$25,000; Commercial Hotel, owned by Snap Vaughan, loss \$7000; A. C. Barry's machine shop, loss \$2500; Mrs. M. E. Barbee's Puryear building, loss \$3500.

Ky., Peter Creek.—J. R. Barrick & Son's store; loss \$5000.

La., Varnado.—Tullos Hotel.

La., Pollock.—J. F. Ball & Bro. Lumber Co.'s planing mill; estimated loss \$75,000.

La., Pollock.—Iron Mountain Lumber Co.'s planing mill.

Md., Rockville.—Episcopal Church's rectory, Rev. Charles D. Lafferty, rector; loss \$5000.

Md., Union Bridge.—Fertilizer factory owned by estate of William G. Rinehart; shirt factory owned by J. Hamilton Repp.

Md., Ellicott City.—St. Charles College buildings; loss on main building about \$500,000.

Miss., Natchez.—Mrs. Sallie Holoman's residence; loss \$4000.

Miss., Terry.—D. T. Simpson's residence; loss \$4000.

Mo., Webb City.—Hatch & McDonald's cottonseed-oil mill.

N. C., Williamston.—Virginia-Carolina Peanut Co.'s plant; loss about \$40,000.

Okla., Webbers Falls.—Hayes Bros.' cotton gin.

S. C., Chester.—Chester Machine & Lumber Co.'s plant; loss on buildings, owned by D. P. Crosby and M. A. Spratt, about \$20,000; total loss about \$30,000.

S. C., Charleston.—John F. Riley Foundry & Machine Works; estimated loss \$40,000.

S. C., Georgetown.—N. E. Smith's stables, loss on building, owned by C. A. Congdon, \$5000.

Tenn., Athens.—J. A. Ray's sawmill and lumber yard; estimated loss \$2000.

Tenn., Bristol.—Holston Institute; loss \$6000.

Tenn., Paris.—Beaver Dam Mills' drying-room of planing mill; loss about \$1000.

Tex., Barstow.—Mercantile Bldg., owned by Mrs. W. L. Fuller; Zack Carr's building.

Tex., Cameron.—Ruby Hotel, owned by Z. T. Sissin; city hall and fire station; total loss about \$10,000.

Tex., Fort Worth.—Fort Worth Stockyards Co.'s sheds; Fort Worth Horse & Mule Co.'s barns; Simmons Team & Mule Co.'s barn; C. B. Team Horse & Mule Co.'s barn; W. O. Rominger & Co.'s barns; Austin Bros.' barns; G. A. Crouch's barns; total loss about \$300,000.

Tex., Orange.—Jacob Weingard's feed-mill building; estimated loss \$4000.

Tex., Rusk.—Singleton & Huddleston's sawmill and planer; loss \$3000.

Tex., Taylor.—Taylor Ginning Co.'s cotton gin.

Va., Big Stone Gap.—J. B. Collier's store; loss \$15,000.

Va., Concord.—Public high-school building; loss \$15,000. Address The Mayor.

Va., Staunton.—T. J. Houlinhan's black-

smith shop; Mrs. Dennis Brown's two buildings, loss \$40,000; three buildings owned by Rev. R. A. Gibson of Richmond, Va., loss \$30,000; Kivelighan & Iyer's building, loss \$30,000; W. J. Neff's building, loss \$25,000; B. W. Crum's building, loss \$15,000; R. P. Lankford's building, loss \$10,000. Other losses: L. B. Bosse, Staunton Milling Co., W. E. Tribbitt, E. D. Dore, Rissberger's barber shop, Trimble Garland's, Dull's and Ashby's liv-

eries, Durley Foster and R. L. Stratton; total loss \$350,000.

W. Va., Stonewall.—Earwood & Bibb's sawmill; loss \$2500.

WRECKED BY EXPLOSION

Md., Baltimore.—D. B. Martin Company's fertilizer plant at Union Abattoir; estimated loss \$20,000; William English, manager.

BUILDING NEWS

BUILDINGS PROPOSED

APARTMENT-HOUSES

D. C., Washington.—Howard Etchison, The Kalorama, is reported as contemplating erection of apartment-house to cost not less than \$300,000.

Ky., Louisville.—Weissinger-Gaulbert Company plans to erect 10-story \$200,000 annex at Third and Broadway.

Miss., Meridian.—W. E. Hopper is having plans prepared for apartment-house; pressed brick; three stories; steam heat; cost \$30,000.

Mo., Kansas City.—Augustus W. Wulser will erect three-story store and apartment building.

Mo., St. Louis.—J. F. Wyland will erect apartment-house; three stories; brick; cost \$22,000.

N. C., Durham.—R. N. Duke and G. W. Watts are reported as contemplating erection of apartment-house; cost \$30,000 to \$50,000.

Okla., Tulsa.—E. L. Fox has plans by J. T. Carter, Tulsa, for store and apartment building; two stories; 50x80 feet; brick or stone; cost \$6500. (Recently noted.)

Tenn., Chattanooga.—W. B. Schwartz, manager of H. Schwartz & Sons, will erect apartment-house.

Md., Baltimore.—Mrs. Charles E. Kemp, Walbrook Ave. and 5th St., will have plans revised by Henry J. Tinley, 314 N. Charles St., Baltimore, for apartment-house on 8th St., Walbrook; brick and terra-cotta; three stories; slate roof; concrete and bluestone foundation; cost about \$15,000.

Tex., Houston.—Banker & Co. are preparing plans for three-story apartment building on Caroline St.

Tex., Houston.—Banker & Co. are preparing plans for four-story store and apartment building; reinforced concrete; brick, stone and copper front.

Tex., Houston.—Ben Levy has plans by Jones & Tabor, Houston, for proposed apartment-house; two stories; four apartments; English style.

Va., Richmond.—E. M. Redford, 1400 E. Main St., will expend \$10,500 to erect apartment building; 28x111 feet; hot-water heat; gas and electric lighting. (Recently noted under "Dwellings.")

Va., Roanoke.—J. F. Barbour & Sons, Roanoke, are lowest bidders for erection of Jefferson apartment-house; six stories; cost \$65,000. (Previously described.)

ASSOCIATION AND FRATERNAL

Ala., Bessemer.—Bessemer Lodge, No. 721, Benevolent Protective Order of Elks, will erect lodge building; cost \$8000 to \$10,000; J. F. Gammon, chairman of committee.

Ala., Whistler.—Bowen Lodge, No. 240, Ancient Free and Accepted Masons, will open bids about May 1 to erect Masonic temple; 31x70 feet; ordinary construction; cost \$4500; plans by Hutchisson & Chester, Mobile, Ala.; address proposals to architects. (Recently noted.)

Ark., Helena.—Masonic Temple Association will erect building; four stories; first floor for stores; second and third floors for annex to Cleburne Hotel and upper floor for lodge-rooms; cost \$15,000. (Masonic Lodge recently noted to erect building.)

Ark., Pine Bluff.—Sahara Temple, Ancient Arabic Order Nobles of the Mystic Shrine, will erect proposed shriners' temple; cost \$30,000.

La., Kentwood.—Lodge No. 248, Ancient Free and Accepted Masons, will erect lodge building; two stories; 40x80 feet; brick.

Md., Baltimore.—Benevolent Protective Order of Elks, 307 W. Fayette St., is having plans prepared by Otto G. Simonson, American Bldg., Baltimore, for improvements to clubhouse; cost \$500; contractors estimating are R. B. Mason, 228 E. Hoffman St.; Henry S. Rippel, 7 Clay St.; and Fred Decker & Son, 1209 E. Biddle St., all of Baltimore.

S. C., Charleston.—Young Men's Christian Association has raised \$157,727.20 to erect

proposed association building; 90x152 feet; five stories; plans by Shattuck & Hussey, Chicago, Ill. (Previously reported planning erection of \$150,000 building.)

Tenn., Chattanooga.—Colored Ancient Free and Accepted Masons have plans by Huntington & Sears, Chattanooga, for lodge building; three stories; brick; 75x25 feet; steam heat; cost about \$9000; are reported to remodel adjoining building.

Tex., Marshall.—Executive board of Masonic Lodge, R. P. Littlejohn, president, will receive bids until 7 P. M. April 3 to erect two-story brick building; plans and specifications at office of Hubbell & Greene, architects, Dallas, Tex., or of Mr. Littlejohn at Marshall.

BANK AND OFFICE

Ala., Tuscaloosa.—Bids will soon be received for erection of additional story to Alston Building; cost \$12,000. (See Contractors Awarded. "Bank and Office Buildings.")

D. C., Washington.—Washington Loan & Trust Co., F and 9th Sts. N. W., has plans by A. B. Heaton, 1319 F St. N. W., Washington, and Weary & Alford, Chicago, Ill., to remodel building; cost \$100,000; plans to convert entire first floor into one banking-room, finished in marble and bronze.

Fla., Brooksville.—Hernando State Bank will enlarge building.

Fla., Ocala.—Richard S. Hall is reported to erect office building.

Fla., Sarasota.—Citizens' Bank of Sarasota, Owen Burns, president, will erect fireproof bank building; 25x80 feet; electric lighting; cost \$10,000; plans by president; day labor. (See "Machinery Wanted.")

Ga., Ocilla.—Citizens' Bank of Ocilla will open bids March 25 (earlier date than previous advices) for erection of bank building; two stories; 30x100 feet; mill construction; steam heat; electric lighting; cost \$15,000; plans by W. B. Camp, Jacksonville, Fla.

Mo., St. Louis.—William L. Balson, 5897 Delmar Ave., will erect office and store building to cost \$25,000; construction by owner. (See "Stores.")

N. C., Monroe.—Farmers and Merchants' Bank is having plans prepared by Hook & Rogers, Charlotte, N. C., to remodel bank building; will provide additional store and office space, install new steel supports, etc.

Okla., Webbers Falls.—First National Bank, H. M. Griswold, Jr., president, will rebuild bank building; 25x100 feet; brick; cost \$3500. (Recently reported burned.)

Tex., Brownsville.—Merchants' National Bank will let contract about March 29 to erect bank and office building recently noted; four stories; 48x120 feet; direct steam heat; electric elevator; cost \$50,000; plans by Atlee B. Ayers, 626 Boddell Bldg., San Antonio, Tex. (See "Machinery Wanted.")

Tex., Dallas.—Southwestern Life Insurance Co. will receive bids until March 25 to erect office building; 16 stories; first two stories 100x100 feet; other stories 100x60 feet; steel frame; face brick and terra-cotta trimming; plans by Lang & Wittich, Dallas. (Previously more fully detailed.)

Tex., East Bernard.—Union State Bank, R. B. Boettcher, cashier, contemplates erection of recently-noted brick or cement-block bank building after June 1; size about 25x40 feet; vault and bank fixtures. (See "Machinery Wanted.")

Tex., Houston.—Settegast Realty Co. is having plans prepared by Glover & Son, Mason Bldg., Houston, for proposed building; six stories; fireproof; steel frame; concrete construction; exterior faced with pressed brick; basement under entire building; cost \$300,000.

Tex., Kingsville.—Trinity & Brazos Valley Railroad, J. W. Robins, president and general manager, Houston, Tex., will erect office building; three stories; brick; cost \$100,000.

Tex., Longview.—First National Bank will erect four-story and double basement building; brick; electric elevators.

Tex., Wolfe City.—Wolfe City National Bank will erect two-story bank and office building.

Va., Petersburg.—American Bank & Trust Co. will erect bank building.

Va., Richmond.—Phillip Harris will erect store and office building; 30x100 feet; five stories; brick; cost \$30,000; plans by Charles H. Fisher, Richmond.

Va., Richmond.—W. J. Gilman will erect office building; three stories.

W. Va., Bluefield.—M. Hyman, Keystone, W. Va., is having plans prepared by E. L. Shuffelbarger, Bluefield, for theater and office building. (See "Theaters.")

W. Va., Huntington.—G. F. Miller Estate and C. L. Ritter will open bids about April 29 for erection of 10-story bank building; first floor to have six stores and 290 offices; reinforced concrete construction; low-pressure steam heat; prism lights; three (traction type) elevators; cost \$359,000; plans by E. N. Alger, Huntington. (Recently noted.)

W. Va., Mullens.—Winding Gulf Bank, L. N. Frantz to be cashier, will erect building in about 60 or 90 days. (See "Machinery Wanted.")

CHURCHES

Ala., Bessemer.—Rev. J. F. Studivant is pastor of congregation which will erect edifice.

Ala., Corey, P. O. at Ensley.—Episcopal congregation plans to erect edifice; Rev. W. N. Claybrook will be temporary rector.

Ala., Decatur.—First Baptist congregation will erect edifice; Rev. Pryor Royer, pastor.

Ala., Elba.—Baptist congregation will erect edifice. Address The Pastor, Baptist Church.

Ga., Fitzgerald.—Baptist Society will erect church; cost about \$25,000.

Ga., Savannah.—Christian Church, Rev. J. A. Erwin, pastor, will rebuild edifice; to include baptistry, robing-rooms, Sunday-school assembly-room, six classrooms and main auditorium; cost \$25,000. (Recently reported burned.)

Ga., Valdosta.—Valdosta Methodist Church will erect addition for Sunday-school department; will increase seating capacity to 1500. Address The Pastor, Valdosta Methodist Church.

Miss., Aberdeen.—Methodist Episcopal Church South, C. L. Tubbs, secretary-treasurer of building committee, will receive sealed proposals until 2 P. M. March 30 (extended date) to erect edifice according to plans and specifications prepared by R. H. Hunt, architect, Chattanooga, Tenn.; plans on file with committee; usual rights reserved. (Recently noted.)

N. C., Goldsboro.—First Baptist congregation will erect \$25,000 edifice. Address The Pastor, First Baptist Church.

S. C., Columbia.—Ebenezer Lutheran Church, A. M. Wise, chairman, building committee, will expend \$10,000 to erect Sunday-school addition; 75x49 feet; ordinary construction; hot-air heat; electric lighting; plans by James B. Urquhart, Columbia; bids opened March 20. (Recently noted.)

S. C., Spartanburg.—Nick Trakes is interested in erection of orthodox Greek church. Tenn., Columbia.—First Presbyterian Church will erect addition to edifice; cost \$15,000. Address The Pastor, First Presbyterian Church.

Tenn., Dickson.—Stewards of Methodist Episcopal Church South will erect \$15,000 edifice. Address The Pastor of Methodist Episcopal Church South.

Tenn., Nashville.—Baptist Board plans to erect edifice; Mrs. Robert Overall is interested.

Tenn., St. Elmo.—St. Elmo Methodist Episcopal Church South, Rev. W. L. Correll, pastor, has plans by R. H. Hunt, Chattanooga, for proposed edifice; brick; stone trimmings; seating capacity of main auditorium, 400; of Sunday-school room, 400; site 100x120 feet; cost \$25,000.

Tex., Bonham.—First Christian Church will erect edifice; cost \$25,000.

Tex., Dallas.—First Presbyterian Church, Rev. W. M. Anderson, pastor, will erect \$125,000 edifice.

Tex., Gainesville.—First Presbyterian Church has not selected architect to prepare plans for \$25,000 edifice; Rev. R. L. Irving or Edgar Van Slyke may be addressed. (Recently noted.)

Tex., Honey Grove.—Baptist congregation will erect edifice. Address The Pastor, Baptist Church.

Tex., Lovelady.—Methodist congregation will erect 50x60-foot edifice; cost \$4000; for further information address W. A. Craven. (Recently noted.)

Tex., Palestine.—Avenue Baptist Church,

Rev. R. L. Gillen, pastor, is considering erection of edifice.

Tex., Snyder.—Methodist Episcopal Church South will erect 70x90-foot edifice; ordinary construction; Sunday-school room in basement; auditorium and galleries, seating capacity 1200; steam heat; electric lighting; cost \$25,000; architect not employed. For further information address O. P. Thrane.

Tex., Waco.—First Presbyterian Church, Rev. C. T. Caldwell, pastor, will erect edifice.

Va., Isle of Wight.—Central Hill Baptist Church will award contract March 25 to remodel church; R. Lee Seward, chairman of building committee.

CITY AND COUNTY

D. C., Washington.—Home.—District of Columbia will have plans prepared for addition to Home for Aged and Infirm at Blue Plains (not a postoffice), Va.; has \$20,000 appropriation.

Fla., Kissimmee.—Jail.—Osceola County Commissioners will receive bids until 12 o'clock noon April 3 to erect county jail; certified check for 5 per cent. amount of bid; bidders to exhibit to commissioners working models of locking device they propose to use and samples of steel work which they propose to put in tool-proof cells; plans and specifications at office of Arthur E. Donegan, Clerk of Circuit Court.

Fla., St. Petersburg.—Fire Station.—City has preliminary plans for proposed fire station; 50x80 feet; pressed brick on two sides, other portion red brick; one and two stories; cost about \$5000. Address The Mayor.

Ga., Pelham.—Municipal Building.—City voted \$25,000 bond issue to erect municipal building, etc. Address The Mayor. (See "Water-works." Recently noted to vote on this issue.)

La., Ville Platte.—Jail.—Evangeline Parish Police Jury proposes to erect courthouse and jail.

Md., Baltimore.—Stable.—Department of Street Cleaning, Joseph L. Wickes, superintendent, is having plans prepared by T. Geo. Carroll, 1209 Continental Bldg., Baltimore, for stable on Greenmount Ave., near North Ave.; two stories; brick; appropriation \$20,000.

Md., Hyattsville.—Municipal Building.—City will erect municipal and fire-department building; brick construction; Wm. P. Magruder, Mayor.

Mo., Kansas City.—Fire Station.—Fire and Water Board will receive bids until April 6 to erect No. 28 engine-house at 60th St. and Troost Ave.

Mo., St. Charles.—Jail.—Bids received until 10 A. M. March 23 by Frank J. Bull, superintendent, at office of H. C. Sandfort, County Clerk, St. Charles, to erect county jail and Sheriff's residence; certified check for 5 per cent. amount of bid, payable to Mr. Bull; plans on file at office of County Clerk and additional copies obtained by remitting \$25 to Mr. Bull, \$20 to be returned on return of plans.

S. C., Columbia.—Jail.—City plans to erect jail building. Address Mayor Gibbs.

Tex., Brownsville.—City Hall and Market.—City voted \$12,000 bond issue to improve city hall and market. Address The Mayor. (City recently noted to vote March 14 on this issue.)

Tex., Calvert.—City Hall.—City postponed election to vote on \$25,000 bond issue for erection of city hall to April 18. Address The Mayor. (Recently noted to vote April 4 on this issue.)

Tex., Paris.—Comfort Station.—City invites architects to submit plans and specifications in about 30 days for comfort station and rest-room; two stories; octagonal in shape; 40 feet in diameter; cost \$10,000. Address E. H. McCuiston, Mayor. (Recently noted.)

W. Va., Parkersburg.—Infirmary.—Wood County Commissioners plan to erect infirmary buildings; cost about \$30,000.

COURTHOUSES

La., Mansfield.—De Soto parish will vote April 25 on five-mill tax to erect courthouse; will have plans prepared by Parent & Livaudais, New Orleans, La.; cost \$80,000. Address Police Jury.

La., Ville Platte.—Evangeline Parish Police Jury proposes to erect courthouse and jail.

Mo., Kansas City.—Jackson County Commissioners, Independence, Mo., Leo M. Gilday, clerk, will soon receive bids for improvements to courthouse, including two fire-proof vaults in basement, etc.; cost \$30,000.

Mo., Springfield.—Green county will vote April 11 on \$150,000 bond issue to complete courthouse. Address County Commissioners.

N. C., Greensboro.—Guilford county is hav-

ing plans prepared by F. A. Weston, Greensboro, for addition to courthouse; two stories; connected with present structure; cost \$4000 to \$5000.

Tex., San Augustine.—San Augustine county will purchase site to erect courthouse. Address County Commissioners.

DWELLINGS

Ala., Bay Minette.—B. C. Britt will erect six dwellings.

Ala., Birmingham.—M. K. Mackey will erect three two-story frame dwellings; cost \$3000.

Ala., Birmingham.—E. E. Hawkins will erect two-story frame dwelling; cost \$3000.

Ala., Gadsden.—Mrs. Laura Barrett will erect two dwellings.

Ala., Gadsden.—A. A. Towers will erect two-story residence.

Ala., Gadsden.—Dr. Guice will erect residence; cost several thousand dollars.

Ala., Tuscaloosa.—Charles Blacklock is having plans prepared by E. J. Ostling & Son, 516 Alston Bldg., Tuscaloosa, Ala., for Spanish bungalow; cost \$6000.

D. C., Washington.—E. M. Dulin, 1270 New Hampshire Ave. N. W., has plans by A. H. Beers, 1342 New York Ave. N. W., Washington, for two-story brick store and dwelling at 218 Rhode Island Ave. N. W.; cost \$3000; construction by owner.

D. C., Washington.—W. C. Allard, Takoma Park, and John F. Bayne, 1310 Florida Ave. N. E., will erect five two-story brick dwellings at 15-25 W St. N. W.; cost \$17,000; plans and construction by W. C. Allard.

D. C., Washington.—Justice Charles E. Hughes, U. S. Supreme Court, Washington, has plans by George Oakley Totten, Jr., 808 17th St. N. W., Washington, for residence at 16th and V Sts. N. W.; cost about \$60,000.

D. C., Washington.—J. Kuttner, 212 10th St. S. E., has plans by A. H. Beers, 1342 New York Ave. N. W., Washington, for two-story frame dwelling at 1350 Monroe St. N. E.; cost \$3500; construction by owner.

D. C., Washington.—Kennedy Bros., 1336 H St. N. W., have plans by A. H. Sonneman, Chevy Chase, Md., for four three-story brick and frame residences at 2615-21 Woodley Pl. N. W.; construction by owner; cost \$60,000.

Fla., Brooksville.—W. W. Thompson will erect six-room residence.

Fla., Ocala.—R. C. Muncester will erect residence.

Fla., Ocala.—Clifford L. Anderson will erect bungalow; 53x90 feet; construction begun.

Fla., St. Augustine.—T. J. Northrup will remodel dwelling and erect additional residence.

Fla., St. Petersburg.—C. F. Harvey will erect residence.

Fla., Tampa.—Mr. French has plans by Edward A. Nolan, 216 Curry Bldg., Tampa, for dwelling; 40x40 feet; ordinary construction; cost \$3500.

Fla., Tampa.—Edward A. Nolan, architect, 216 Curry Bldg., Tampa, prepared plans for 40x40-foot dwelling; ordinary construction; furnace; electric lighting; cost \$3400; owner's name not given. (Recently noted.)

Fla., Tampa.—Swan & Holtzinger Company has plans by Edward A. Nolan, 216 Curry Bldg., Tampa, for dwelling; 38x40 feet; stucco; furnace; electric lighting; cost \$2500.

Ga., Atlanta.—Geo. P. Moore will erect residence; cost \$15,000.

Ga., Atlanta.—J. L. Bowles will erect \$3000 residence.

Ga., Gainesville.—J. T. Chambliss of Gainesville Harness Co. has plans by J. Frank Moorefield, Gainesville, for dwelling; 11 rooms; Georgian style.

Ga., Hawkinsville.—J. J. McAllister will erect residence; two stories; nine rooms.

La., New Orleans.—Lawrence Fabacher will expend \$5000 to improve dwelling, including reinforced concrete porch and garden with glass sides.

La., New Orleans.—E. V. Fassman will erect double two-story residence; cost \$5000.

La., New Orleans.—M. A. Cornu will erect three double cottages; cost \$4500.

La., New Orleans.—C. A. Ahern will erect single frame dwelling; cost \$3000.

La., New Orleans.—Mrs. Falk will erect two double cottages; cost \$5300.

Md., Baltimore.—H. Webster Cooke, 210 Law Bldg., is having plans prepared by Jacob F. Gerwig, 210 E. Lexington St., Baltimore, for five dwellings on 31st St. near Harford Rd.; two stories; porch front; iron spot brick; marble trimmings; cost \$2500.

Md., Baltimore.—David Wright, Highland Ave. and Pratt St., purchased four acres of land on 3d St., between Baltimore and Fayette Sts., and will erect 118 two-story brick dwellings.

Md., Baltimore.—Wm. P. Thompson, 1107 Ridgely St., has plans by F. E. Beall, 213 St. Paul St., Baltimore, for 12 two-story brick dwellings on Montpelier Ave. near Montebello Ave.; 14x14 feet; porch fronts; cost \$14,000.

Md., Baltimore.—P. C. Mueller Building Co., 3829 Foster Ave., will erect 30 two-story brick dwellings on Falt Ave.

Md., Baltimore.—Webb & White, Maryland Telephone Bldg., are having plans prepared by Henry J. Tinley, 214 N. Charles St., Baltimore, for cottage on Berwyn Ave., near Liberty Heights Ave.; 33x32 feet; two and a half stories; frame; water heat; gas and electric lighting; construction by owner; cost \$4000.

Md., Baltimore.—James Keely, Baltimore St. west of Gorman Ave., purchased 11 acres of land and will erect number of porch-front dwellings; plans not decided.

Md., Towson.—David M. Andrew, Eastern Ave. and 12th St., will erect four cottages.

Md., Chestertown.—E. F. Perkins is having plans prepared by Otto G. Simonson, American Bldg., Baltimore, Md., for store and dwelling; brick construction; 20x67 feet.

Mo., St. Louis.—Ettrick Realty Co. has plans by A. Blair Ridington, 1162 Fullerton Bldg., St. Louis, for three dwellings; 32x40 feet; 2½ stories; tile roof; ordinary construction; hot-water heat; cost \$8000 each; will let sub-contracts. (Recently noted.)

N. C., Concord.—N. F. Yerke will not at present erect dwelling recently noted.

N. C., Shelby.—J. A. Anthony will erect residence.

Okla., Oklahoma City.—Commonwealth Investment Co. will erect 13 dwellings on W. 23d St.; cost \$2500 to \$5000 each; California bungalow style; two stories.

Okla., Oklahoma City.—H. G. Newman will erect residence; two stories; eight rooms; brick; cost \$5000.

Okla., Oklahoma City.—C. P. Sites will erect two dwellings; one at 804 W. 18th St.; 10 rooms; two stories; colonial style; brick; cost \$12,500; the other in 1000 block of W. 18th St.; two stories; frame; 10 rooms; cost \$7000.

Okla., Muskogee.—Charles M. Haskell is reported to erect residence.

Okla., Tulsa.—J. B. Davis will erect two-story brick residence; 12 rooms; cost \$2500.

Tenn., Clarksville.—W. W. Barksdale will erect residence.

Tex., Asherton.—Joseph E. Haynes, superintendent of construction, states that proposed residence for Asher Richardson will be completed in about 30 days; white sandstone; second-story walls shingled; 13 rooms, storage cellar and basement; four baths; heating and ventilating plant; cost \$30,000.

Tex., Bay City.—G. G. Hamill will erect residence; cost \$3200 to \$4000.

Tex., Dallas.—J. R. Eldridge will erect two-story frame dwelling; cost \$1500.

Tex., Dallas.—J. L. Durham will erect two-story frame dwelling; cost \$4000.

Tex., El Paso.—John Sorenson will erect residence; fireproof; reinforced concrete; concrete floor and roof; cost \$4000 to \$5000.

Tex., Houston.—W. A. Bard of Fort Wayne, Ind., will erect residence.

Tex., Houston.—W. T. Carter, Jr., will erect residence.

Tex., Houston.—Miss Alice M. Bond will erect residence; construction under supervision of J. W. Jones, Houston.

Tex., Houston.—A. S. Cleveland will erect mission style dwelling.

Tex., Houston.—Herman Forrester will erect residence.

Tex., Houston.—Wm. D. Cleveland is reported to erect residence.

Tex., Houston.—W. H. Wilhelm is reported to erect three dwellings in Magnolia Park.

Tex., Houston.—Mrs. E. Alstrom is having plans prepared by Jones & Tabor, Houston, for \$5000 bungalow at Westmoreland.

Tex., Houston.—G. Milnes of Avondale, Tex., will erect residence.

Tex., Houston.—H. A. Bauer of Swift & Co. will erect residence in Magnolia Park.

Tex., Houston.—W. B. Chadwick of Catlettsburg, Ky., will erect residence.

Tex., Houston.—Geo. E. Peyton will erect residence.

Tex., Houston.—John P. Durham will erect residence.

Tex., Houston.—John Bute is having plans

prepared by Banker & Co. for residence; nine rooms; cost \$10,000 to \$12,000.

Tex., Van Alstyne.—Creed Taylor will receive bids through John Tulloch, architect, Sherman, Tex., until March 30 for erection of residence; plans and specifications at office of architect at 26-28 Linz Annex, Sherman, Tex.; separate contract for hot-water heating.

Tex., Webster.—Harvey T. D. Wilson is having plans prepared by Jones & Tabor, Houston, Tex., for single story 10-room bungalow.

Va., Lynchburg.—Mrs. Janet W. Scruggs will erect residence; frame; shingle roof; cost \$3000.

Va., Norfolk.—Harry St. George Tucker has revised plans by Wood, Donn & Deming, 808 17th St. N. W., Washington, D. C., for residence on Tanners Creek; will receive bids for construction until March 27; probably brick with stone trimmings; cost about \$25,000; contractors estimating are J. D. Anders, Vega & Richardson and Myers & Turpin Construction Co., all of Norfolk. (Previously noted to erect this structure.)

Va., Richmond.—Frank W. Carter will erect two-story brick dwelling and one-story brick stable; cost \$55,000.

Va., Salem.—W. S. Shank has plans by G. R. Rogers, Salem, for dwelling; 40½x38 feet; two stories; cost \$4000. (Recently noted.)

Va., Willoughby Beach.—Mrs. Sarah Thompson, Portsmouth, Va., will erect 10-room cottage.

W. Va., Keyser.—H. O. Thrush invites architects to submit plans for eight-room dwelling; mill construction; hot-water heat; acetylene gas lighting; cost \$4000. (See "Machinery Wanted.")

GOVERNMENT AND STATE

Tex., Terrell.—Postoffice.—Treasury Department, office of Supervising Architect, James Knox Taylor, Washington, D. C. Sealed proposals will be received until 3 P. M. March 25, and then opened, for construction, complete (including plumbing, gaspiping, heating apparatus, electric conduits and wiring), of United States postoffice at Terrell, Tex., in accordance with drawings and specifications, copies of which may be obtained from custodian of site at Terrell, or at this office, at discretion of Supervising Architect.

Va., Fort Monroe.—Barracks.—R. B. McBride, Constructing Quartermaster, opened bids for erection of proposed barracks; following are lowest bidders: For constructing, D. J. Phipps, Newport News, Va., at \$38,500; plumbing and heating combined, W. G. Morris, Phoebus, Va., at \$5350; plumbing alone, C. T. Taylor, Hampton, Va., at \$2875; heating alone, W. G. Morris, Phoebus, Va., at \$1950; electrical work, Samuel J. Watson, Jr., Hampton, Va., at \$832.

HOTELS

Ala., Mobile.—B. F. Cody will erect hotel.

Ark., Altheimer.—Mrs. E. V. Bryant, Keo, Ark., will not erect hotel previously noted.

Ark., Helena.—Masonic Temple Association will erect annex to Cleburne Hotel. (See "Association and Fraternal Buildings.")

D. C., Washington.—F. A. Blundon, 707 G St. N. W., has plans by A. H. Beers, 1342 New York Ave. N. W., for apartment hotel at 1305 10th St. N. W.; four stories; brick; cost \$35,000; construction by owner.

Fla., Brooksville.—Varnedoe Hotel will erect addition; brick.

Fla., Floridatown (not a postoffice).—Floridatown Land Co., A. P. Hardee, president, Milton, Fla., is having plans prepared by W. C. Frederic, Pensacola, for 26-room hotel; cost \$10,000; electric lights.

Fla., Passaicville.—George Lizotte has plans for combination hotel and bathhouse; 42 bedrooms; dining-room 30x70 feet; frame construction; screened porch 10 feet wide on three sides; two and three stories; steam heat; refrigerating plant; electric lights; sewerage system; cost \$15,000.

Fla., St. Petersburg.—Fred Lowe, Steubenville, O., will erect three-story hotel adjoining Florissant Hotel, to be connected with latter by six or eight-foot hall; all sleeping-rooms equipped with private baths, hot and cold running water, etc.; steam heat; cost about \$30,000.

Fla., Winter Haven.—G. A. Stephens, president Moline Plow Co., Moline, Ill., will not erect hotel recently reported.

Ga., Atlanta.—J. T. Crass has plans by Haralson Bleckly, Atlanta, for hotel; six stories; fireproof; steel and pressed-brick exterior; interior finished in marble and imported walnut; about 100 rooms; cost \$75,000.

Ga., Elberton.—C. A. Parks will rebuild

Hotel Roberts, reported burned; 35 rooms; fireproof construction; hot-water heat; electric lighting; cost \$15,000 to \$20,000.

Miss., Meridian.—J. P. Sharman is reported to erect front to Planters' Hotel to replace building now in rear of that structure; cost \$20,000.

Mo., Kansas City.—Commercial Club is not interested in erection of hotel recently noted; report incorrect.

N. C., Fayetteville.—J. H. McAden of Charlotte, N. C.; J. P. Sanders and Robert Irwin of Greensboro, N. C., purchased Hotel Lafayette and will expend \$20,000 for improvements.

N. C., Southern Pines.—E. Millen is re-inn, recently burned; fireproof; brick or cement blocks; three stories; about 100 sleeping-rooms; cost, including furnishings, about \$20,000.

Okl., Oklahoma City.—Henry Martin, proprietor of Martinique Hotel, plans to erect family hotel; brick; 150x100 feet; 30 of 60 rooms equipped with private baths; light yellow brick; cost \$30,000.

Tex., Falfurrias.—G. W. Smith, proprietor of Park Hotel, is having plans prepared by Alfred Giles Company, San Antonio, Tex., for hotel.

Tex., Houston.—Jesse H. Jones will erect hotel; probably 18 stories; 500 rooms; other details not determined. (Previously noted.)

MISCELLANEOUS

Ala., Ocala.—Clarence Camp will erect clubhouse.

Ark., Little Rock.—Sanitarium.—J. P. Runyan will erect sanitarium; two stories; brick; cost \$6000.

Fla., Jacksonville.—Car Barn.—Jacksonville Electric Co., Stone & Webster Engineering Corporation, engineer in charge, 147 Milk St., Boston, Mass., will expend \$25,000 to erect addition to car barn.

Fla., Pensacola.—Sanitarium.—Pensacola Sanitarium plans to erect sanitarium building.

Md., Baltimore.—Exchange.—Women's Exchange, Charles and Pleasant Sts., will have plans prepared by Walter M. Gieske, 66 Gunther Bldg., Baltimore, for exchange building to replace present structure; colonial style; probably brick with marble or terra-cotta trimmings.

Md., Havre de Grace.—Hospital.—Havre de Grace Hospital of Harford County incorporated; will erect hospital building.

N. C., Dunn.—Stable.—J. H. Ballance will erect brick stable.

Okl., Albion.—Sanatorium.—B. A. Hall will erect sanatorium; cost \$20,000.

S. C., Charleston.—Infirmary.—St. Francis Xavier Infirmary plans to raise fund by popular subscription to erect building to cost about \$20,000.

Tex., Brownsville.—Clubhouse.—Brownsville Country Club, W. S. West, president, has plans for clubhouse; two stories; mission style; stucco finish; "Y" shape; 14-foot porch, about 150 feet long.

Tex., Cuero.—Sanitarium.—J. W. Brown and associates will erect sanitarium; electric lights and heat; three stories.

Tex., Cuero.—J. W. Burns will erect brick sanitarium; cost \$15,000.

Tex., Fort Worth.—Barns.—Fort Worth Stockyards Co. will rebuild barns, etc., reported burned; steel and concrete.

Va., Norfolk.—Parish-house.—St. Paul's Episcopal Church has plans for proposed parish-house in Brambleton. Address The Rector, St. Paul's Episcopal Church.

Va., Norfolk.—Clubhouse.—Country Club has plans by Neff & Thompson, Norfolk, for proposed clubhouse addition to double present capacity; colonnade extending from main building to addition, which will contain six dining-rooms and number of sleeping apartments; colonnade to be encased in glass in winter and screened in summer; will add about 700 more yards to golf links; contractors estimating are Myers-Turpin Construction Co., Baker & Brinkley, R. M. Price, East & Hobbs, J. D. Anders and Jesse Johnson, all of Norfolk; bids received until March 22.

Va., Richmond.—Stables.—Frank W. Carter will erect one-story brick stable.

RAILWAY STATIONS

Fla., Inverness.—Seaboard Air Line Railway, W. L. Seddon, chief engineer, Portsmouth, Va., plans to erect \$15,000 depot.

Ga., Dalton.—Southern Railway, D. W. Lum, chief engineer, Washington, D. C., will erect freight depot; cost \$19,000.

Md., Port Deposit.—Pennsylvania Railroad, Alex. C. Shand, chief engineer, Phila-

delphia, Pa., will erect depot to replace damaged structure.

N. C., Charlotte.—Piedmont Traction Co. will erect freight and passenger depots and warehouse; cost about \$500,000.

Okl., Lawton.—Chicago, Rock Island & Pacific Railway, J. B. Berry, chief engineer, Chicago, Ill., will erect depot; 300 feet long; cost \$70,000.

Tex., San Saba.—Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex., has plans and specifications and will advertise for bids to erect passenger station, 124 feet by 27 feet 4 inches, and frame freight depot, 96 feet 6 inches by 24 feet; passenger station will be of brick; smooth-finish concrete floors; dull-red tile roof; interior finished in plaster, with ornamental brick wainscoting; white and colored passenger waiting-rooms; ticket-office windows finished in art glass.

W. Va., Warwood.—Pennsylvania Railroad, Alex. C. Shand, chief engineer, Philadelphia, Pa., will erect station; cost \$6000.

SCHOOLS

Ala., Flomaton.—City voted bond issue to erect school. Address The Mayor.

D. C., Washington.—District Commissioners have plans by Snowden Ashford, 1719 Riggs Pl. N. W., for normal school at 11th and Harvard Sts. N. W.; three-story central portion with recessed courts about 50x40 feet on each side; tiled-paved terraces; assembly hall to seat 500; commodious stage with dressing rooms on either side; court on one side of central building will lead to normal school; two two-story wings on north and south sides of courts; classrooms to seat 40 to 45 pupils; eight exits and two stairways; each 6 feet 6 inches wide; corridors 13½ feet wide; heating and ventilating equipment and fuel storage under terrace outside walls of building; laboratories on ground floor; 42 rooms outside of gymnasium and assembly hall; Elizabethan style; hand-made brick walls; window mullions and copings of stone and terra-cotta; 200 square feet window space; cost \$250,000. (Previously noted to have plans by Mr. Ashford.)

Fla., Inverness.—School Board plans to erect \$15,000 school.

Fla., Lake Butler.—City will probably vote on \$30,000 bond issue for school improvements. Address The Mayor.

Fla., White Springs.—Board of Trustees, A. F. Hudson, chairman, will open bids April 3 for erection of school building; 12 classrooms and auditorium; ordinary brick construction; cost \$10,000; plans by Fred H. Bishop, Atlanta, Ga.

Ga., Glennville.—City defeated \$15,000 bond issue to erect school. (Recently noted.)

Ga., Hamilton.—Town will erect \$15,000 school; plans not made. Address J. R. Lumsford, Clerk of Council.

Ga., Roberta.—City will erect school building; 62x75 feet; two stories; ordinary construction; gas lighting; cost \$5000. Address proposals to J. S. Sandifer. (Recently noted as planning \$5000 bond issue.)

La., Rayne.—City sold \$25,000 of bonds and will erect school. Address The Mayor.

Md., Ellicott City.—St. Charles College, Rev. F. N. McKenny, president, plans to rebuild college buildings destroyed by fire; loss about \$250,000.

Md., Salisbury.—Livingstone College, W. H. Goler, president, will erect domestic science art building.

Miss., Jackson.—State Normal School Trustees plan to erect dormitories, administration and other buildings.

Mo., St. Louis.—Committee on school buildings of Board of Education will open bids April 3 to erect addition and alter Simmons and Benton schools; plans will be ready by March 23; H. C. Toensfeldt, Commissioner of School Buildings. (Recently noted to have rejected all bids for erection of Simmons school.)

Mo., St. Louis.—Board of Education will erect proposed Harnes Heights School building; cost \$127,000.

Mo., Sarcoxie.—Sarcoxie District Board of Education will receive bids until 5 P. M. April 7 to furnish labor and material for erection of proposed high-school building; certified check for \$300; plans and specifications at office of Garstang & Rea, architects, 204 Grome Bldg., Joplin, Mo., or of G. W. Wood, secretary of board at Sarcoxie.

N. C., Chapel Hill.—University of North Carolina, Francis P. Venable, president, will erect building for Schools of Medicine and Pharmacy; cost \$50,000; building will have hot-water heat; plans by Milburn, Heister & Co., Home Life Bldg., Washington, D. C.

Okl., Altus.—City will probably issue \$25,

000 bonds to purchase site and erect school. Address The Mayor.

Okl., Beggs.—City plans to issue \$8200 worth of bonds to erect school; cement blocks; two stories; eight rooms. Address The Mayor.

Okl., Lawton.—Department of the Interior, Washington, D. C. Sealed proposals in duplicate will be received at this department until 2 P. M. April 17 for construction of 10-room school building and sidewalks around same in North Addition to Lawton in accordance with drawings and specifications, copy of which, with form of proposal, may be had on application to the department; certified check for \$25 will be required as guarantee for safe return of plans; plans and specifications may also be examined in office of president of Board of Education, Lawton; usual rights reserved; proposals must be securely enveloped and marked "Proposal for Construction of School Building and Sidewalks, Lawton, Okla.," and addressed to Secretary of the Interior, Washington, D. C.; Frank Pierce, First Assistant Secretary.

Okl., Muskogee.—City will vote April 4 on \$175,000 bond issue to erect two 10-room ward schools to cost \$57,500 each, two additional rooms and heating plant at Irving school; two additional rooms and additional manual-training equipment at negro training school on Fon du Lac St., etc. Address The Mayor.

S. C., Clemson College.—Clemson Agricultural College will open bids in April for erection of addition to dormitory No. 1 and three colonial porches to dormitory No. 2; brick; ordinary construction; electric lighting; tin roof; cost \$18,000; plans by R. E. Lee, director of architectural department of the college; will let contract at same time for erection of frame dairy barn with silos; cost \$8000. Address Mr. Lee.

S. C., Dillon.—School District contemplates erection of \$25,000 fireproof high school building; N. B. Hargrove interested. (Contemplated bond issue recently noted.)

S. C., Greenwood.—Lander College will erect dormitory; cost \$30,000 to \$35,000; G. W. Sullivan, chairman of building committee.

S. C., Spartanburg.—City voted \$50,000 bond issue to erect school; 14 classrooms; brick construction; steam heat; cost \$40,400. Address The Mayor. (Recently noted.)

Tenn., Columbia.—City will erect high-school building; Robert L. Harris, school superintendent.

Tenn., Jackson.—City will open bids about April 15 to erect school building; ordinary construction; fan system heating; electric lighting; cost \$42,000; plans by R. A. Heavener, 8 Murray Bldg., Jackson. (Recently noted.)

Tenn., Holston.—Holston Institute will rebuild structure reported burned; loss \$6000.

Tenn., Trenton.—Gibson County Commissioners plan to issue \$20,000 of bonds to erect county high-school building and improve Peabody high-school building.

Tex., Alexandria.—School Board will receive bids until April 1 to erect two-story school; plans and specifications at office of A. M. Hale, secretary of Board, Alexandria, or of S. Z. Park, architect, Granbury, Tex.

Tex., Aransas Pass.—Bids received until 2 P. M. March 21 by Carl Utterback, president of Aransas Pass Independent School District, for erection of brick school building; plans and specifications at office of J. D. McBride, architect, Aransas Pass.

Tex., Cuero.—City will vote in April on \$12,000 bond issue for erection of school; William Wagner, secretary, School Board. (Recently noted.)

Tex., Dallas.—City contemplates issuing \$250,000 of bonds for school improvements, including improvements to Stephen F. Austin school. Address The Mayor.

Tex., McKinney.—School Board awarded contract to McCormick & Godwin, Denton, Tex., to erect two schools; cost \$19,000. (Recently noted to erect these buildings.)

Tex., Pecos.—McKenzie & Brady, Pecos, will receive bids until 10 A. M. March 25 to erect two-story-and-basement brick and cement high-school building; plans and specifications from Walter L. Falvey, architect, Guaranty Trust Bldg., El Paso, Tex., and may be had on deposit of \$2; certified check or bid bond payable to J. F. McKenzie, trustee.

Tex., Premont.—City sold bonds and will erect school. Address The Mayor.

Tex., Terrell.—Wesley College will erect \$20,000 dormitory.

Tex., Waxahachie.—City voted \$15,000 bond issue to erect ward school. Address The Mayor.

Va., Concord.—City will rebuild high-school

building reported burned; loss \$15,000. Address The Mayor.

Va., Newport News.—City is considering voting on \$100,000 bond issue to erect high-school building. Address The Mayor.

Va., Richmond.—Richmond College has plans by Cram Goodhue & Fergusson, Boston, Mass., for college plant; 10 or 12 buildings; initial cost about \$500,000; Woman's College building to cost \$100,000; Gothic style; stone and brick; stadium to accommodate 10,000 people.

W. Va., Alderson.—Alderson Baptist Academy has plans by James Montgomery, Charleston, W. Va., for \$40,000 building.

STORES

Ala., Tuscaloosa.—Cochrane & Simpson are having plans prepared by E. J. Ostling & Son, 516 Alston Bldg., Tuscaloosa, to remodel store building.

D. C., Washington.—E. M. Dulin, 1270 New Hampshire Ave. N. W., will erect store and dwelling. (See "Dwellings.")

Fla., Brooksville.—J. J. and E. C. Hall will erect business building; two stories; brick; lower floor for stores; upper floors for offices; cost \$10,000.

Fla., Brooksville.—J. J. Beek will erect business building; three stories; brick.

Fla., Miami.—W. M. Burdine & Son have not definitely determined upon plans to erect department store recently noted.

Fla., Ocala.—Baxter Carn will open bids about April 24 to erect seed store and feed warehouse; 57x84 feet; ordinary brick construction; hand elevator; cost \$11,000 to \$12,000. (Recently noted.)

Fla., Ocala.—D. M. Smith will erect two-story business building.

Fla., St. Petersburg.—F. R. Singlehurst will erect frame business building; 40x40 feet; two stories.

Ga., Atlanta.—A. L. Dunn will erect business building; cost \$10,000.

Ga., Atlanta.—Hammond Land Co. plans to erect business building.

Ga., Augusta.—S. H. Kress & Co., 256 Broadway, New York, will erect store building.

Ga., Savannah.—J. and H. Rucker have plans by Madrid Cox for concrete store building.

Ky., Bowling Green.—W. D. Neale of Woodburn, Ky., will erect store building to replace structure reported burned with loss of \$12,000; one story; will contain three store-rooms.

La., Donaldsonville.—Netter & Co. will erect store building to replace structure recently reported burned.

La., Donaldsonville.—Charles Oschwald will erect store to replace structure recently reported burned.

Md., Chestertown.—E. F. Perkins is having plans prepared by Otto G. Simonson, American Bldg., Baltimore, Md., for store and dwelling. (See "Dwellings.")

Miss., Meridian.—H. Thornton will probably remodel stable into store and office building; lower floor for stores, upper floors for offices; cost \$25,000.

Miss., Meridian.—O. L. David will probably erect three-story brick business building; cost \$25,000.

Miss., Meridian.—C. M. Rubush will erect business building; frontage 125 feet; cost \$40,000.

Miss., Meridian.—W. G. Hayes will probably erect business building; about 98x10 feet; cost \$40,000.

Miss., Meridian.—Mrs. W. C. Brookshire will erect three-story brick business building; frontage 89 feet; cost \$20,000.

Mo., Springfield.—D. M. Diffenderfer will erect business building; two stories; 70x100 feet; brick; mill construction; electric lighting; cost \$10,000; date of opening bids not decided. (Recently noted.)

Mo., Kansas City.—August W. Wulser will erect store and apartment building.

Mo., St. Louis.—William L. Balson, 5837 Delmar Ave., has plans by J. L. Wees, Commercial Bldg., St. Louis, for \$25,000 store and office building; fireproof and ordinary construction; heating plant to cost \$1925; construction by owner. (Recently noted.)

N. C., Goldsboro.—H. Weil & Bro. has plans by F. K. Thompson, Raleigh, N. C., for department store; three stories; 40x150 feet; steam or hot-water heat; electric lighting; cost \$15,000; date of opening bids not set.

N. C., Morganton.—Pitts & Giles, Glen Alpine, N. C., have plans by T. E. Davis for store building; 46x70 feet; brick; cost \$800; day labor. (Recently noted.)

N. C., Raleigh.—W. W. Vass reported as having plans prepared for two store buildings on Fayetteville St.

N. C., Winston-Salem.—R. W. Correll, P. A. Correll and Mrs. H. L. Riggins will erect three store buildings to replace burned structure; fireproof; two stories and basement; pressed brick and plate glass fronts. (Recently reported burned with loss of \$20,000.)

Okla., Oklahoma City.—R. E. Thomas will erect brick store building; one story; cost \$8,000.

Okla., Tulsa.—E. L. Fox has plans by J. T. Carter, Tulsa, for store and apartment-house recently noted; cost \$6500. (See "Apartments.")

S. C., Columbia.—E. Lee will erect store building.

Tenn., Dyersburg.—West Tennessee Investment Co., W. C. Paris, president, will erect three-story brick business building.

Tenn., Memphis.—Van Fleet-Mansfield Drug Co. will erect business building; one story at present at initial cost of \$40,000; contemplates erection of five or six additional stories later; total cost \$200,000.

Tex., Celeste.—G. D. Henslee will rebuild eight stores of various dimensions; ordinary construction; cost \$40,000. (Recently reported burned.)

Tex., Port O'Connor.—J. R. Wilkinson, Washington Blvd. and Adam St., will erect business building; two stories; brick.

Tex., San Angelo.—J. M. Holman will erect store building; one story; concrete; 50x130 feet; cost \$5000.

Tex., San Antonio.—W. Fenstermaker has plans by E. B. Ayers, San Antonio, for store and theater building; construction by owner. (See "Theaters.")

Tex., Shiner.—Bids will be received until 5 P. M. March 24 to erect two-story brick building; certified check for \$500; plans and specifications at Houston Builders' Exchange or office of J. Henry Yentzen, Yoakum, Tex.

Va., Boydton.—J. W. Edmondson will erect brick store building.

Va., Norfolk.—Steve Seelinger will erect business building.

Va., Norfolk.—Ames, Brownley & Hornthal will erect building on Granby St., adjoining present structure; 35x135 feet.

Va., Richmond.—Mrs. Catherine D. Hagan will erect business building; three stories and cellar; depth 45 feet.

Va., Richmond.—John Murphy is reported to erect store building.

Va., Richmond.—Mrs. Annie R. Steinbrecker will erect three-story-and-basement building.

Va., Richmond.—W. H. Schwarzschild will erect three-story-and-basement brick store building.

Va., Richmond.—Chasfe Traferi will erect two-story brick tenement; two stories; cost \$10,000.

W. Va., Huntington.—G. F. Miller Estate and C. L. Ritter will open bids about April 29 for erection of 10-story store and office building; cost \$250,000. (See "Bank and Office Buildings.")

W. Va., Huntington.—Joe Thompson will erect business building; five stories; cost \$20,000.

W. Va., Welch.—A. Z. Litz will erect three two-story brick store buildings.

THEATERS

Fla., Orlando.—J. B. Magruder will expend \$20,000 to erect theater; 125x50 feet; dressing rooms under stage; construction by owner (not by Mr. Hawley, as recently stated).

Md., Baltimore.—Louis & Abraham Benesch, 415-17 Galther Bldg., have plans by Theodore Wells Pietsch, American Bldg., Baltimore, for moving-picture theater at 158-60 W. North Ave.; one story; brick; seating capacity 400; contractors estimating are Charles L. Stockhausen, National Marine Bank Bldg.; John Hiltz & Son, 3 Clay St.; Edward Piler, 222 Perry St.; Louis O. Hildebrand & Bro., 215-17 Courtland St.; Wm. T. Murphy, 843 N. Howard St.; Harry H. Brown, 109 Clay St.; Lorenz Schoenlein & Son, 2217 E. Baltimore St.; Fred Decker & Son, 1209 E. Biddle St.; Thos. B. Stanfield, 109 Clay St.; Henry A. Knott, 1319 Wilcox St.; Geo. A. Blake, 301 Law Bldg., and Peters & Harding, 15 E. Fayette St., all of Baltimore. (Recently noted as having plans prepared for this building.)

Md., Hagerstown.—Hagerstown Musical Society plans to erect music hall.

Okla., Poteau.—Blair & Mills are having plans prepared by Klingensmith, Fort Smith, Ark., for theater; 50x130 feet; brick; gas heat; electric lighting; asphalt pavement; cost \$15,000. (Recently noted.)

Tex., Houston.—Geo. M. Jenks and Clark Cox will erect theaterium to seat 2500. (See "Miscellaneous Enterprises.")

Tex., San Angelo.—Billie Wishert and D. R. Walsh, both of Austin, Tex., are interested in erection of moving-picture and vaudeville theater; seating capacity 700.

Tex., San Antonio.—W. Fenstermaker has plans by E. B. Ayers, San Antonio, for theater and stores; four stories; 68x150 feet; ordinary construction; steam heat; electric lighting; cost \$35,000; construction by owner. (Recently noted.)

W. Va., Bluefield.—M. Hyman, Keystone, W. Va., is having plans prepared by E. L. Shufelbarger, 6-7 John Bldg., Bluefield, for three-story brick theater and office building; fireproof; cost about \$20,000; first floor for theater; upper floors for offices.

WAREHOUSES

Ala., Gadsden.—Southern Mfg. Co. will erect warehouse.

Ala., Mobile.—New Orleans, Mobile & Chicago Railroad Co., W. F. Owen, general manager, will build steel warehouses and sheds. (See "Miscellaneous Construction.")

Fla., Jacksonville.—National Biscuit Co., New York, awarded contract to H. T. Hadlow, Jacksonville, to erect office and warehouse building; one story; 50x200 feet; brick.

Fla., Ocala.—Baxter Carn will open bids about April 24 to erect feed warehouse and store building. (See "Stores.")

Ga., Valdosta.—C. R. Ashley will erect warehouse.

Ga., Valdosta.—Georgia & Florida Railroad,

will erect two warehouses.

Md., Baltimore.—Knickerbocker Ice Co., York and William Sts., has plans by J. E. Laferty, 11 E. Pleasant St., Baltimore, for ice warehouse; two stories; brick; cost \$20,000.

Mo., St. Louis.—Remis Bros. Bag Co. will erect eight-story warehouse; cost \$55,000.

Mo., St. Louis.—Silgo Iron Co. will erect warehouse; cost \$50,000; construction by company.

N. C., Raleigh.—W. A. Simpkins is reported to erect storage warehouse for cottonseed.

Okla., Oklahoma City.—O. F. and C. D. Rice will erect two-story brick warehouse; 50x120 feet; cost \$6500.

Tex., Beaumont.—H. C. Kahn's storage warehouse, corner Forsythe and Neches Sts., now under construction, will be fireproof throughout, materials being reinforced concrete and steel; four stories; 90x120 feet; to have three stores on ground floor and 30-foot driveway; automatic-type freight elevator; to have 18 rooms on each floor.

Tex., San Angelo.—Charles W. Hobbs will erect fireproof concrete warehouse.

Va., Brookneal.—Brookneal Tobacco Warehouse Co. incorporated with \$50,000 capital stock; R. F. Connally, president; J. R. Scott, vice-president; J. H. Foster, secretary-treasurer.

Va., Danville.—James A. Robertson, J. E. Neal, Geo. A. Myers and E. L. Walton purchased and will remodel Cabell warehouse and operate tobacco warehouse.

BUILDING CONTRACTS AWARDED

APARTMENT-HOUSES

D. C., Washington.—Henry H. Hazen, 1204 18th St. N. W., awarded contract to M. F. Piper, 147 Rhode Island Ave. N. W., Washington, to convert residence at 932 G St. N. W. into four-story apartment and store building; 23x103 feet; fireproof construction; stores on first and second floors; three apartments each on third and fourth floors; steam heat; electric lighting; cost \$25,750; plans by A. B. Heaton, 1319 F. St. N. W., Washington.

Mo., St. Louis.—Trade Realty & Building Co. awarded contract to F. J. Cornwell & Son for erection of apartment-house; 58x45 feet; ordinary construction; steam heat; cost \$17,000. (Recently noted.)

Va., Norfolk.—S. Dear awarded contract to East & Hobbs, 615 Law Bldg., Norfolk, to erect two apartment-houses on Westover Ave.; contractors are receiving sub-bids for plastering, painting and concrete work.

ASSOCIATION AND FRATERNAL

La., Alexandria.—Alexandria Lodge, No. 546, Benevolent Protective Order of Elks, awarded contract at \$21,000 to Ed. T. Elam, Alexandria, to erect lodge building; two stories and basement; separate bids for heating and plumbing.

Tex., Eagle Lake.—Eagle Lake Lodge, No. 366, Ancient Free and Accepted Masons, has plans by and awarded contract to George W. Keith, Eagle Lake, to erect lodge building; 58x90 feet; ordinary construction; electric lighting; cost \$6000. (Recently noted.)

BANK AND OFFICE

Ala., Tuscaloosa.—The Alston Building will be remodeled at cost of \$10,000; quartz and onyx wainscoting in lobby and corridors; fresco and relief decorations on walls and ceiling; plans by E. J. Ostling & Son, 516 Alston Bldg., Tuscaloosa; contracts awarded. Same architects are also preparing plans for additional story to building, making structure eight stories high; 40x77 feet; cost \$12,000; bids will soon be received for the additional story.

Ark., Dalark.—Dalark Bank, F. S. De Lamar, cashier, has plans by and awarded contract to Galey & Emrick, Oklahoma City, Okla., to erect two-story 24x50-foot brick bank building; cost \$2000. (Recently noted.)

Fla., Palatka.—Putnam National Bank awarded contract to Geo. W. Muller, Atlanta, Ga., to remodel interior and front of bank; front to be of Georgia marble; two entrances; plate-glass windows with brass grill work; concave cornered steel ceilings; tile floor; cashier's, teller's and bookkeeper's stations in Italian marble, with mahogany trimmings; polished brass grill work; cost \$16,000.

Fla., Jacksonville.—Florida Life Insurance Co. awarded contract to Frank Richardson, Jacksonville, to erect office building; 10 sto-

ries; reinforced concrete; pressed-brick and terra-cotta front; fireproof; plans by H. J. Klutho, Board of Trade Bldg., Jacksonville; structure will be 30x85 feet; steam heat; lighting and elevators not decided; vacuum cleaning plant; cost \$75,000. (Previously noted to erect this building according to plans by Mr. Klutho.)

N. C., Charlotte.—Garibaldi, Bruns & Dixon awarded contract to J. A. Jones, Charlotte, to erect store and office building. (See "Stores.")

N. C., Vass.—Bank of Vass awarded contract to T. B. Crue, Aberdeen, N. C., to erect bank building; 24x40 feet; ordinary brick construction; electric lighting; cost \$18,000; D. A. McLaughlin, secretary, Board of Directors. (See "Machinery Wanted.")

Okla., Rocky.—State Bank of Rocky awarded contract to Bushnell & Johnson, Lawton, Okla., to erect building; two stories; fireproof; cost \$10,000.

S. C., Spartanburg.—H. R. Black and J. T. Willard awarded contract to P. J. O. Smith & Son, Spartanburg, to erect store and office building; two stories; brick; 24x86 feet; store on first floor; offices above; cost \$10,000.

Tex., Dallas.—Building committee of Dallas Cotton Exchange awarded contract to American Construction Co., Houston, Tex., to erect office building; 73x128 feet; seven stories and basement; concrete frame; fireproof construction; face brick and terra-cotta trimmings; cost \$150,000 to \$200,000; plans by Lang & Wittich, Dallas. (Previously noted.)

CHURCHES

Ky., Earlington.—Methodist Episcopal Church South awarded contract to Wooten & Reynolds, Madisonville, Ky., to erect edifice; auditorium 42x42 feet, chapel 17x23 feet and two classrooms; brick walls to window sills; stucco-panel work to cornice; amber moss glass windows; shingle roof; interior finished in mission.

Md., Elkridge.—Grace Protestant Episcopal Church awarded contract to Joseph C. Riley, Elkridge, to erect edifice; one and a half stories; granite; 43x76 feet; slate roof; concrete foundation; hardwood and parquet flooring; cost \$13,000; plans by George Worthington, 522 Law Bldg., Baltimore, Md. (Noted in February as having plans by Mr. Worthington for this structure.)

Miss., Jackson.—First Church of Christ, Scientist, R. T. Merrill, chairman of building committee, awarded contract to J. C. Laudon, Jackson, to erect edifice; 30x70 feet; ordinary construction; hot-air heat; cost \$8000; plans by Spencer & Powers, Chicago, Ill. (Recently noted.)

N. C., Morven.—Methodist congregation awarded contract to John Graham, Lilesville, N. C., to erect edifice; 63x75 feet; ordinary construction; plans by Louis H. Asbury, Charlotte, N. C.; cost \$10,000.

Tex., Houston.—Sacred Heart Church

awarded contract to G. A. Crawford, Houston, to erect edifice; cost \$60,000.

Va., Harrisonburg.—Methodist Episcopal Church South will expend \$40,000 to erect edifice and detached Sunday-school rooms; 110x150 feet; mill construction; brownstone walls, slate and copper roof; interior, quarter-sawn oak; hot-water heat; electric lighting; heating and lighting contracts separate; plans by Charles M. Robinson, Richmond, Va.; contract recently noted awarded to J. S. Heatwole Company, Harrisonburg, Va. (See "Machinery Wanted.")

CITY AND COUNTY

Mo., Kansas City.—Fire Station.—Fire and Water Board awarded contract to Crosby & Son, Kansas City, to erect No. 3 fire station at 19th and Central Sts.; brick; cutstone trimmings; cost, exclusive of plumbing and heating, \$24,000; plans by Edwards & Sunderland, 559-60 Sheldley Bldg., Kansas City. (Recently noted to receive bids until March 16.)

N. C., Dunn.—Town Hall and Market.—City Building Committee awarded contract at \$9788 to C. B. West, Greenville, N. C., to erect town hall and market; 55x100 feet; plans by Benton & Moore, Wilson, N. C. (See "Machinery Wanted.")

Tenn., Union City.—Library.—City awarded contract to Will Spradlin and T. L. Bransford & Sons, Union City, to erect library building; cost \$10,000; plans by Henry D. Whitfield, 109 Fifth Ave., New York. (Recently noted as having plans for this building.)

DWELLINGS

D. C., Washington.—Elizabeth M. Morgan awarded contract to H. C. Ball, Washington, to erect two-story frame dwelling at 3915 Huntington St. N. W.; cost \$4384; plans by Harding & Upman, 729 15th St. N. W., Washington.

D. C., Washington.—Jesse W. Rawlings, 3122 14th St. N. W., has plans by and awarded contract to J. J. Moels, Washington, to erect four two-story brick dwellings at 2125-31 Newport Pl. N. W.; cost \$12,000.

D. C., Washington.—A. W. Crittenden, 3813 Woodley Rd. N. W., awarded contract to Robey Bros., Washington, to erect two-story dwelling at 3817 Woodley Rd. N. W.; cost \$4000; plans by Claughton West, 222 Oxford Bldg., Washington.

D. C., Washington.—Samuel Sacks, 13th and G Sts. N. W., and Robert Flynn, 1421 U St. N. W., awarded contract to J. Lynch, Washington, to erect four two-story brick dwellings at 1621-27 V St. N. W.; cost \$12,000; plans by Speiden & Speiden, 1403 New York Ave. N. W., Washington.

Fla., Tampa.—Frank O'Donahue awarded contract to J. M. Knight, Tampa, to erect dwelling; 30x40 feet; brick veneer; cost \$3300; plans by Edward A. Nolan, 216 Curry Bldg., Tampa.

Ga., Dawson.—J. H. Brim has plans by and awarded contract to John Leveret, Dawson, to erect proposed dwelling; one story; eight rooms; fireplaces; gaslighting; cost \$5000.

Ga., Savannah.—Chatham Land & Hotel Co. awarded contract to Autey & Simpkins to erect dwelling; cement blocks covered with Portland cement stucco; gas and electric lighting; cost \$8000. (Recently noted.)

Ga., Savannah.—Mrs. S. Herman awarded contract to Artley & Simpkins, Savannah, to erect residence; Spanish type; plans by H. W. Whitecover, Savannah.

Ky., Catlettsburg.—Wayne Dameron awarded contract to P. S. Marcum, Catlettsburg, to erect residence; construction begun.

La., Lake Charles.—John Storer awarded contract to N. B. Barden to erect dwelling; two stories; 56x42 feet; ordinary construction; cost \$4000; plans by J. C. Carter. (Recently noted.)

Md., Baltimore.—Lenhurst Land Co. awarded contract to Boyd & Huff, 314 N. Charles St., Baltimore, to erect five cottages on Wilkens Ave. near 18th St.; cost \$30,000.

Md., Baltimore.—Henry Williams, 605 Union Trust Bldg., awarded contract to Gladfelter & Chambers, 2072 Woodberry Ave., Baltimore, to erect residence; two and a half stories; ornamental pressed brick; slate roof; brick stable in rear; cost about \$30,000.

Md., Baltimore.—William Deale awarded contract to Webb & White, Maryland Telephone Bldg., Baltimore, to erect residence on Morelle Rd. near Strathmore Ave.; two stories; six rooms and bath; hot-water heat; cost \$4000.

Md., Baltimore.—Clinton P. Greer, 402 N. Carey St., awarded contract to W. T. Childs, 14-16 W. 20th St., Baltimore, to erect resi-

dence at 2209 Roslyn Ave.; 30x30 feet; cost \$6000.

Md., Baltimore.—Mrs. Georgeanna Goetzke has plans by and awarded contract to Henry Smith, Lauraville, Md., to erect dwelling; 28x37 feet; mill construction; cost \$5000. (Recently noted.)

Md., Baltimore.—Luther E. Martin, 411 Equitable Bldg., has plans by and awarded contract to J. F. Hardy, Groveland Ave., to erect two-and-a-half-story frame cottage on Garrison Ave.; 31x35 feet; porches on two sides; cost \$5500.

Md., Chestertown.—Robert Moffett awarded contract to W. S. Carroll, Chestertown, to erect store and dwelling. (See "Stores.")

Md., Baltimore.—Clyde N. Friz, Glenn Bldg., awarded contract to John F. Kunkel, 125 S. Highland Ave., Baltimore, to erect cottage at Ten Hills; two and a half stories, frame and stucco; hardwood and parquetry flooring; cost \$8000; plans by owner. (Recently noted.)

N. C., Concord.—J. A. Cannon awarded contract to R. L. Walthal, Concord, for erection of dwelling; nine rooms; fireproof construction; hot-water heat; electric lighting; cement and stone sidewalks; cost \$3000; plans by Hunter & Gordon, Charlotte, N. C. (Recently noted.)

N. C., Durham.—W. P. Henry awarded contract to N. Underwood, Durham, to erect residence; brick veneer; two stories; 46x63 feet; gas and electric lighting; cost \$10,000; plans by Linthicum & Rose, Durham.

N. C., Durham.—John Sprunt Hill awarded contract to J. W. Pierce, Durham, to erect residence; reinforced concrete; two and a half stories; fireproof; red tile roof; first story brick, covered with concrete; 15 rooms; steam heat; cost \$50,000; plans by Kendall-Taylor Company, Durham.

S. C., Florence.—Progress is being made on construction of residence for Dr. Benjamin B. Gregg; frame; two stories and attic; 12 rooms and two bathrooms; hot-water heat; electric lighting; cost within \$8000; plans by W. J. Wilkins & Co., Florence; contractor, S. Bounds, Florence.

Tenn., Hill City.—S. P. Loomis, Chattanooga, Tenn., awarded contract to Miles & Standish, Chattanooga, to erect proposed dwelling; 10 rooms; brick; slate roof; hot-air heat; gas and electric lighting.

Tex., Brackettsville.—Henry Veltman, Jr., awarded contract for erection of residence; two stories.

Tex., Houston.—H. and N. Reyner awarded contract to Copeland & Curtis, Houston, to erect residence.

Tex., Marfa.—J. A. Harris awarded contract to J. A. Pitts, Marfa, to erect cottage.

Va., Berkeley, Station Norfolk.—Captain Miller awarded contract to R. L. Hayman, Norfolk, to erect residence.

Va., Norfolk.—Meyer & Whitehall Company, 342 Church St., awarded contract to Dodge Bros., Norfolk, to erect 50 two-story dwellings in Lindenwood; cost \$60,000.

Va., Norfolk.—Robert W. Tomlin, Law Bldg., will expend \$6300 to erect dwelling; 50x60 feet; two stories; ordinary construction; pressed brick; latrobes and open grates; gas and electric lighting; plans and construction by W. H. Saunders, Norfolk. (Recently noted.)

Va., Portsmouth.—Mrs. Annie E. Beaton will expend \$5880 to erect dwelling; 34x48 feet and 26x34 feet; ordinary construction; gas and electric lighting; plans by A. B. Roane (address care of Mrs. Beaton); contract recently noted awarded to Stroud & Hooks, Portsmouth.

GOVERNMENT AND STATE

Ark., Little Rock.—Laundry.—State Board of Charities will expend \$4000 to erect recently-noted laundry building at Deaf Mute Institute, 32x100 feet; fireproof construction; steam heat; plans by H. J. Harker, State Bank Bldg., Little Rock; all building contracts let. (See "Machinery Wanted.")

Ky., Frankfort.—Prison.—Prison Commission will expend \$13,000 to remodel interior of penitentiary; 80x80 feet; three stories; mill construction; plans by Rowe & Gannini, Lexington, Ky.; contract recently noted awarded to Capital Lumber & Manufacturing Co., Frankfort; material purchased.

Md., Mount Hope.—Hospital.—Mount Hope Retreat awarded contract to John Waters, 23 E. Centre St., Baltimore, Md., to remodel present chapel for patients' rooms and erecting chapel; three stories; brick; terra-cotta and concrete; 130x65 feet; cost \$80,000; plans by Baldwin & Pennington, Professional Bldg., Baltimore.

W. Va., Charleston.—Government awarded contract to Finley Bros. Company, Chester,

W. Va., to erect 10 blockhouses at 10 Kenawha River locks; 24x30 feet; cost \$30,000.

HOTELS

Miss., Hattiesburg.—G. W. Kamper awarded contract to W. C. Bennett, Hattiesburg, for erection of family hotel; 40x120 feet; two stories; ordinary construction; steam heat; electric lighting; cost (including heating and lighting) \$10,000; plans by R. E. Lee, Hattiesburg. (Recently noted under "Dwellings.")

MISCELLANEOUS

Ark., Hot Springs.—Bathhouse.—Maurice Baths awarded contract to Hugh McLennan Construction Co., Chicago, Ill., to erect bathhouse; reinforced concrete frame; hollow-tile walls; marble, tile and glass finish throughout; thermostatic heat regulative plant; also awarded contract to William Borman of Hot Springs for plumbing, heating and ventilating.

D. C., Washington.—Grandstand.—Washington Baseball Club, Thomas C. Noyes, president, 1101 Pennsylvania Ave. N. W., will erect steel grandstand to replace structure burned; will also improve diamond, etc.; awarded contract to Osborne Company, Cleveland, O., to erect temporary grandstand, and to Geo. A. Fuller Company, Fuller Bldg., New York, for permanent structure; cost of improvements, about \$100,000.

Fy., Bowling Green.—Livery Barn.—W. Y. McGinnis awarded contract to erect brick livery barn to replace stable reported burned; loss \$8000.

Okla., Tulsa.—Livery Stable.—M. A. Younkman and H. C. Stahl awarded contract to Shallenberger Construction Co. for erection of livery stable recently noted; two stories; 50x140 feet; brick; electric lighting; hand elevator; cost \$10,000. (See "Machinery Wanted.")

Tenn., Memphis.—Memphis Country Club awarded contract to Olson & Leah, Memphis, to erect clubhouse; cost about \$70,000. (Previously noted.)

Tex., Taylor.—Sanitarium.—F. C. Floeckinger and J. A. Thompson awarded contract at \$10,500 to Dixon Construction Co., Austin, Tex., to erect Taylor Sanitarium; two and a half stories and basement; colonial style; sedolite floors; sun galleries. (Previously noted.)

Va., Norfolk.—Pavilion.—Norfolk & Portsmouth Traction Co. awarded contract to John H. Pierce & Son, Norfolk, to erect pavilion; two stories; 100x200 feet; concrete foundation; ballroom 50x100 feet; cost \$19,000.

Va., Orange.—Storage Shed.—W. H. Stark awarded contract to Southern Construction Co. (Miller Bros.), Orange, to erect storage shed in rear of building; 14 feet high in front and 11 or 12 feet high in rear; concrete construction; 20x56 feet; awarded contract to W. E. McCorquodale, Orange; to install heating system.

RAILWAY STATIONS

N. C., Raleigh.—Seaboard Air Line Railway, W. L. Seddon, chief engineer, Portsmouth, Va., awarded contract to J. H. Pierce & Son, Norfolk, Va., to erect freight depot and agent's office; 40x420 feet; ordinary brick construction; electric lighting; cost \$25,000. (Recently noted.)

SCHOOLS

Mo., St. Louis.—Parish of Our Lady of Sorrows, Rev. Bernard Stolte, pastor, 683 Gravois Ave., awarded contract to Frank Kratzer, 45 Nebraska Ave., St. Louis, to erect school building, 98x63 feet, with 16-foot boiler-room attached to rear; steam heat; cost \$25,500; plans by Alfred Kratzer; heating contract not let. (Recently noted.)

S. C., Clemson College.—Proposed dairy buildings for Clemson College will have two stories and basement; 62x77 feet; brick walls, stone trimmings and tile roof; cost (including heating and plumbing) \$20,000; plans by R. E. Lee, director of architectural department of the college; contract for building awarded to W. M. Jordan, Greenville, S. C. (See "Machinery Wanted.")

Tenn., Memphis.—Board of Education awarded contract to Murch Bros. Construction Co., Odd Fellows Bldg., St. Louis, Mo., to erect manual training shop; fireproof; 50x200 feet; one story; enameled brick interior walls, matt brick and terra-cotta exterior; cost \$57,000; plans by Alsop & Smith, Memphis, Tenn. (Recently noted.)

Tenn., Paperville, R. F. D. from Bristol.—City awarded contract to C. C. Peters, Bristol, Tenn., to rebuild high school and Odd Fellows' hall, recently burned.

Tex., Dallas.—Board of Education awarded

contract at \$28,413 to Crisman & Nesbit, Dallas, to erect O. M. Roberts school building; eight rooms; reinforced concrete. (Crisman & Nesbit recently noted as lowest bidders.)

Tex., Mission.—City awarded contract to erect proposed \$3000 school. Address The Mayor.

Va., Chatham.—Chatham Episcopal Institute will expend \$22,500 to erect four-story dormitory; 99 feet 2 inches by 50 feet 11 inches; mill and ordinary construction; brick; steam heat; acetylene gas and electric lighting; hand elevator; plans by Frye & Chesterman, Lynchburg, Va.; contract recently noted awarded to Smoot & Sheehan, Lynchburg, Va.

STORES

Ala., Dothan.—M. Levine and Sol Lurie awarded contract to erect three store buildings.

Ark., El Dorado.—First National Bank awarded contract to Frank Masling, Monroe, La., to erect building; cost \$16,000; plans by Smith & Barthel, Monroe, La.

Ark., Little Rock.—Roots estate awarded contract to B. H. Crawford & Bro., Little Rock, for remodeling store; 50x130 feet; brick; steam heat; freight and dumbwaiters; cost \$3000; plans by Charles L. Thompson, Little Rock. (Recently noted.)

D. C., Washington.—Gabriel Carol awarded contract to John Brennan, 946 Florida Ave. N. W., Washington, to erect three one-story brick stores at 3312-16 Georgia Ave. N. W.; cost \$3000; plans by G. V. Leisenring, Washington.

D. C., Washington.—Dr. Henry H. Hazen, 1204 18th St. N. W., awarded contract to M. F. Piper, 147 Rhode Island Ave. N. W., Washington, to convert residence into four-story store and apartment building; stores on first and second floors. (See "Apartments.")

D. C., Washington.—A. G. Herriman awarded contract to R. C. Hess, 115 Tennessee Ave. N. W., to repair building at 750 10th St. S. E.; cost \$6000; plans by C. E. Webb, Warner Bldg., Washington.

D. C., Washington.—C. C. Calhoun, 1420 New York Ave. N. W., awarded contract to Gormley-Poynton Company, 729 15th St. N. W., Washington, to repair building at 1322 New York Ave. N. W.; cost \$3000; plans by Marshall & Marshall, Washington.

D. C., Washington.—Wallerstein Bros., 212 10th St. N. W., awarded contract to Armour & Co. to repair building at 218 10th St. N. W.; cost \$4000; plans by owners.

Fla., Brooksville.—Peter Limbery awarded contract to J. F. Whitney, Brooksville, to erect business buildings; two stories; brick.

Ga., Doerun.—Perry Bros. awarded contract to W. A. Webb, Moultrie, Ga., to erect store building.

Ga., Pineview.—W. C. Slade awarded contract to O. R. Willis, Hawkinsville, Ga., to erect brick store.

Ga., Pineview.—Dr. Petway awarded contract to O. R. Willis, Hawkinsville, Ga., to erect brick store.

Ga., Pineview.—R. L. Wilson awarded contract to O. R. Willis, Hawkinsville, Ga., to erect store; brick construction.

Ga., Tifton.—Golden Hardware Co. awarded contract at \$18,000 to W. H. Spooner, Tifton, to erect building; three stories and basement; brick; total cost, including plumbing, electric wiring, steam heating, etc., \$32,000.

La., Shreveport.—Hutchinson Bros. Real Estate & Building Co. awarded contract to T. Green, Shreveport, for erection of (recently noted) two-story addition to structure now under construction; building will be six stories; 40x150 feet; fireproof; cost \$8000; plans by J. Y. Snyder, Shreveport.

La., White Castle.—Levy & Johnson awarded contract to Neville & Swiler, New Orleans, La., to erect store building; two stories; brick.

Md., Baltimore.—Baltimore Bargain House, Jacob Epstein, proprietor, 204-220 W. Baltimore St., awarded contract to Noel Construction Co., German and Calvert Sts., Baltimore (subject to usual procedure), to erect building at Baltimore and Liberty Sts.; Joseph Evans Sperry, 409 Calvert Bldg., Baltimore, is architect in charge. (These contractors lately noted among others estimating.)

Md., Chestertown.—Robert Moffett awarded contract to W. S. Carroll, Chestertown, to erect store and dwelling; 25x32 feet, with building in rear 19x32 feet; concrete blocks; red pressed brick front.

N. C., Charlotte.—Garibaldi, Bruns & Dixon awarded contract to J. A. Jones, Charlotte, to erect store and office building; three sto-

ries; pressed brick; copper trimmings; 45x50 feet; cost about \$12,000; lower floor for store; upper floors for offices.

S. C., Columbia.—Estate of C. H. Mason, C. B. Simmons and Mrs. E. M. Wright, executors, awarded contract at \$32,450 to Richmond Construction Co., 1004 Main St., Columbia, for erection of three-story brick business building; 51x176 feet; plate glass; terra-cotta trimmings; plans by J. B. Urquhart, Columbia. (Recently noted.)

S. C., Spartanburg.—H. R. Black and J. T. Willard awarded contract to P. J. O. Smith & Son to erect store and office building. (See "Bank and Offices.")

Tenn., Chattanooga.—S. E. Howell awarded contract through architects, Clarence T. Jones and J. G. Barnwell, Chattanooga, to P. O. Rogers & Son, Chattanooga, for erection of four store buildings; 75x90 feet; one story with carrying capacity for additional stories; brick; composition roof; metal ceiling; plate-glass front; gas and electric lighting.

Tenn., Memphis.—Hein Realty Co. awarded contract to Murch Bros. Construction Co., Odd Fellows Bldg., St. Louis, Mo., for erection of \$250,000 building to be occupied by Wm. R. Moore Dry Goods Co.; eight-story structure; 149x150 feet; reinforced concrete, with brick and terra-cotta exterior; two passenger and three freight elevators; building to be completed by October 1; plans by Shaw & Pfeil, Memphis. (Mrs. Gerber, recently noted as owner, made transfer to Hein Realty Co.)

Tex., San Angelo.—Lang & Aycock awarded contract to M. A. Moon, San Angelo, to erect two-story brick and stone building; cost \$20,000.

Tex., Yoakum.—W. L. Lawrence awarded contract to Ross & Shall, Yoakum, for erection of store building; 50x70 feet; two stories; fireproof construction; cost \$10,000; plans by J. Henry Yentzen, Yoakum. (Recently noted.)

Va., Lynchburg.—Miss Dora Ford awarded contract to Smoot & Sheehan, Lynchburg, to erect proposed store building; three stories and basement; 20x122 feet; brick and tapestry-brick front; plate glass with copper metal frames; steel ceiling; slag roof; cost without heating plant or elevator, \$10,500; plans by Frye & Chesterman, Lynchburg.

Va., Norfolk.—Francis Decordy estate awarded contract to J. D. Anders, Norfolk, to erect two brick stores; 34x100 feet; ordinary construction; plans by Lee & Diehl, Norfolk; cost \$5000.

Va., Richmond.—Charles T. Friend awarded contract to erect three-story business building.

THEATERS

Md., Baltimore.—West End Amusement Co. awarded contract to Armored Concrete Construction Co., 1210 Block St., Baltimore, to erect moving-picture theater at 1603-1609 W. Baltimore St.; reported to be two stories; 32x135 feet; fireproof; cost \$30,000; plans by Paul Emmart, 210 W. Fayette St., Baltimore.

bon Bldg., New Orleans, La.; Daniel A. Simmons, Jacksonville, Fla., is secretary.

Ga., Macon.—An officer of the Central of Georgia Railway says there is nothing in the press report which stated that the company would build a new line into Macon from Singers Hill.

Ga., Sparks.—The Georgia & Florida Railway, it is reported, will build an extension from Sparks to Adel, Ga., about three miles. W. A. Swallow is chief engineer at Augusta, Ga.

Ky., Henderson.—An officer writes that the Henderson Interurban Company has been organized to build a line about 90 miles long from Henderson to Dixon, Ky., and other points. The route is fairly level. The directors are Malcolm Yeaman, president, Henderson, Ky.; E. F. Wheaton, Nashville, Tenn., vice-president and general manager; Charles T. W. Argue, Henderson, Ky., secretary and treasurer, the other members of the board being W. W. Cooper, Smith Mills, Ky.; B. G. Witt, A. G. Crutchfield, Aaron Mann, J. W. Henson, W. T. Lambert, N. P. Taylor and James H. Letcher, all of Henderson. A press report says that incorporation papers have been filed with \$10,000 capital. H. U. Wallace of Chicago will make preliminary surveys and report.

Ky., Whitesburg.—An officer of the Louisville & Nashville Railroad says that he has no information as to that company constructing other lines from Potters Fork to Norton, Va. This denies a late press report.

Md., Towson.—An officer of the Towson & Cockeysville Electric Railroad Co. writes that the proposed line will be seven miles long from Towson to Cockeysville, Md., via Lutherville, Timonium and Texas. One bridge will be required over the Northern Central Railroad north of Texas; one tunnel under Seminary Ave. at Lutherville will also be built. Permission to cross county roads is now being asked. The directors are J. Alexis Shriver, president, Belair, Md.; Wm. H. Wight, vice-president, Cockeysville, Md.; James S. Nussear, secretary and treasurer, Lutherville, Md.; Charles E. Rieman, Baltimore, Md.; David G. McIntosh, Towson, Md.; James H. Harlow is chief engineer.

Miss., Hattiesburg.—A dispatch says that plans are under consideration to build an interurban railway to connect Hattiesburg, Ellisville and Laurel, Miss., the line to be 28 miles long. Zollie Stevens of Hattiesburg, Miss.; Guy M. Walker, A. M. Hughes and R. A. Pratt of New York are said to be interested.

Mo., Kansas City.—The proposed grade reduction on the Kansas City Southern Railroad, it is said, will be between Grandview and Neosho, Mo. President J. A. Edison is quoted as saying that the grade will be reduced from 1 per cent. to one-half of 1 per cent., and will take about a year to complete. Bids have been received and contract is soon to be let. A. F. Rust is chief engineer at Kansas City, Mo.

Mo., Springfield.—J. I. Woodfill, trustee, writes that the Jersey Route (Springfield &

Western Interurban Railway) has completed surveys and estimates for its proposed 90 miles of electric railway and will be in the market to equip it.

N. C., Charlotte.—Construction is reported begun by Stewart & Jones, contractors for the Piedmont Traction Co.'s line between Charlotte and Kings Mountain, 34 miles. Several steam shovels will be employed. W. S. Lee is vice-president and chief engineer at Charlotte.

N. C., Charlotte.—The Piedmont Traction Co., says a report, will let contract in a few days for its bridge over the Catawba River at Mt. Holly. It will cost about \$60,000, and may include accommodations for ordinary vehicles as well as for the railway. W. S. Lee, Charlotte, N. C., is vice-president and chief engineer.

N. C., Burlington.—A dispatch says that the court has confirmed sale of the Southern Traction & Power Co.'s property to J. W. Murray of Burlington, and it is understood that construction of the railway to connect Burlington, Graham and Haw River will be resumed.

N. C., Raleigh.—A dispatch from Asheville says that the Raleigh, Charlotte & Southern Railroad is projected to run from Raleigh to Pittsburg, Ramseur, Franklinville, Asheville, Albemarle and Charlotte, and among those interested are J. D. Ross, O. R. Cox, M. W. Parrish and Wm. C. Hammer.

N. C., Salisbury.—A dispatch says that \$75,000 of bonds to aid the proposed railroad from Salisbury to Monroe have been voted by Rowan and Cabarrus counties.

N. C., Southport.—Residents of Southport, says a dispatch, have voted \$15,000 of bonds in aid of the Wilmington, Brunswick & Southern Railroad, now building from Navesse to Southport. It is to be completed by June 30.

N. C., Troy.—Concerning the contemplated extension of the Durham & Charlotte Railroad from Troy to Concord, N. C., 46 miles, an officer says nothing can now be announced.

Okla., Bromide.—The Missouri, Oklahoma & Gulf Railroad, it is reported, will build an extension from Bromide to Pontotoc, Okla. J. J. Harrison is chief engineer at Muskogee, Okla.

Okla., Muskogee.—A dispatch says that contract has been signed by the Muskogee Electric Traction Co. and the People's Interurban Electric Railway Co. for the construction of an interurban from Muskogee to Fort Gibson, 12 miles. The latter is the company in which Ex-Gov. F. N. Haskell and others are interested.

Okla., Muskogee.—Grading is reported completed on the St. Louis, Oklahoma & Southern Railway's line from Southwest City, Mo., to Tahlequah, Okla., and will be continued to Muskogee. E. A. Peters, vice-president of the American Bankers' Assurance Co., St. Louis, Mo., is interested.

Okla., Tulsa.—An officer of the Sand Springs Interurban Railway is reported saying grading is about half completed on the line for which contracts were lately awarded. W. H. Hendron is chief engineer.

S. C., Greenville.—The Piedmont & Northern Railway Co. has let contract to William J. Oliver & Co. of Knoxville, Tenn., to build its proposed line from Greenwood via Anderson and Greenville to Spartanburg, S. C., about 95 miles. Estimated cost, \$200,000 to \$1,000,000. W. S. Lee of Charlotte, N. C., is vice-president and chief engineer. The route from Greenwood is via Hodges; Donalds, Honea Path, Belton, Williamston, Pelzer, Piedmont and Gantt to Greenville. The route between Greenville and Spartanburg is not definitely decided. The contract covers grading, masonry and trestles.

Tenn., Dyersburg.—The Birmingham & Northwestern Railroad, according to a report quoting an official, will award contracts about April 1 for about 45 miles of line from Dyersburg southeast via Friendship, Crockett Mills, Alamo and Bells to Jackson, Tenn., including a 70-foot steel bridge and a trestle over Forked Deer River. R. M. Hall is president and Mike Harvey chief engineer at Dyersburg, Tenn.

Tenn., Maury City.—One of the parties interested in the proposed "Lakes to Gulf" Railroad writes that the line projected at present is 37 miles from Brownsville to Newbern, Tenn., via Maury City, Friendship and Chestnut Bluff. Connection will be made with the Illinois Central at Newbern. Among those interested are C. L. Carlton of Brownsville and R. W. Riggins of Maury City, Tenn. It is understood that N. N. Thompson and J. D. Fuller 88 Porter Bldg., Memphis, Tenn., are also interested.

Tenn., Union City.—Concerning the recent

report that a railroad would be built, the Manufacturers Record is informed that it has been recently rumored that a street-car line would be built from Union City to Gibbs, 3½ miles, but the plan is only prospective.

Tex., Bryan.—A letter to the Manufacturers Record says that the Bryan-Brazos Valley Railroad Co. has invited bids for the construction of a steel bridge over the Brazos River near Bryan. The proposed line is financed. Address J. K. Parker, Bryan, Tex.

Tex., Dallas.—Edward T. Moore, manager of the Dallas Consolidated Street Railway, is quoted as saying that the Stone & Webster Engineering Corporation of Boston, Mass., will build an interurban electric railway from Dallas to Waxahatchie, about 30 miles, connecting with the Northern Texas Traction Co.'s line at Oak Cliff.

Tex., Gardendale.—The Crystal City & Uvalde Railroad, says a dispatch, will build an extension east from Gardendale, about 30 miles. J. E. Franklin is president and E. Breaker chief engineer, both at Crystal City, Tex.

Tex., Houston.—W. S. Kirkham, it is reported, will build an electric railway 4½ miles long, from the terminus of the Liberty Ave. line to Port Houston. McCarthy & Son are the engineers.

Tex., Oakville.—A dispatch says that Geo. W. West, residing near Oakville, offers a bonus of \$250,000 for a railroad built through his ranch, which is 40 miles from the nearest existing road.

Tex., Paris.—The Paris & Mt. Pleasant Railroad Co., writes an officer, will build 28 miles of extension from Bogota to Mt. Pleasant, Tex., including about 4000 linear feet of trestling. N. H. Ragland is general manager at Paris, Tex.

Tex., Rockport.—A report says that an officer of the Rockport & Aransas Pass Terminal Railroad has announced that contracts will be let as soon as location is made for the harbor line. About one-half of the grade is completed. There will be about two miles of trestling and a steel bridge. C. G. Johnson is president of the road, and Percival & Son, engineers and contractors, both at Rockport, Tex.

Tex., Vernon.—The American Central Railroad Co., chartered in Arizona, is reported to have let contract to the Central Construction Co. for a line from Vernon, Tex., to Hoover, Tex., 165 miles. The entire line is to run from Aransas Pass, Tex., to Pterre, S. D. Major Geo. W. Angle, 60 New St., New York, is reported to be chief engineer.

Va., Richmond.—John C. Robertson writes that as soon as the City Council consents to the separation of the Seven Pines line from the rest of the Virginia Passenger & Power Co.'s property a charter will be obtained and a company organized to build the proposed railroad from Richmond to Urbanna, Va., about 55 miles.

W. Va.—The New River Power & Development Co., says a report from New York, has exercised its option for the purchase of the Bluestone Traction Co.'s property, and M. F. Viole of New York was elected president of the traction company; Edwin Mann of Bluefield, vice-president, and W. C. Follock, also of Bluefield, treasurer. It is contemplated to extend the railroad to the coal fields. Viole, Blackwell & Buck, 49 Wall St., New York, are interested.

W. Va., New Martinsville.—An election is called for April 19 in Magnolia district of Wetzel county to vote on \$100,000 of bonds to aid the proposed Clarksburg Northern Railroad projected by T. Moore Jackson of Clarksburg, W. Va., and I. M. Underwood of Middlebourne, W. Va., between New Martinsville and Middlebourne. An election will be held in Eilsworth district of Tyler county on April 22 on \$125,000 of bonds for the same road.

STREET RAILWAYS

Ala., Birmingham.—A report says that construction will begin in a few days on a car line to the summit of Shades Mountain. Officers of the company are Eugene Fies, president; E. W. Jordan, vice-president; W. C. Hamilton, secretary and treasurer; directors, Emmet Collins, Hinds Peery, C. J. Phillips, Val J. Nesbitt, Eugene Fies, E. W. Jordan and W. C. Hamilton.

Ark., Fort Smith.—The Fort Smith Light & Traction Co., it is reported, contemplates an issue of \$6,000,000 of bonds for extensions and improvements. J. W. Gillette is general manager.

Fla., Jacksonville.—The Jacksonville Electric Co., it is announced, will spend over \$800,000 for improvements this year, including double track on Church St. and Highway Ave. Hardy Croom is manager.

RAILROAD CONSTRUCTION

RAILWAYS

Ala., Montgomery.—The Lee Street Terminal Co., with authorized capital of \$80,000, proposes to build a belt line railroad and terminal tracks. W. J. Hannah is president, J. T. Roberts vice-president, Floyd B. Powell secretary and J. M. Winchester treasurer.

Ark., Corning.—President George A. Booser of the Corning State & Coopers Co. is reported to have begun construction of a railroad from Corning to Kelly Hole on Black River, three miles. He is quoted as saying that it may be extended to Piggott, Ark.

Ark., Helena.—An officer of the Missouri & North Arkansas Railroad writes that plans for the terminal improvement at Helena are not sufficiently developed for announcement. G. L. Sands is vice-president at St. Louis, Mo.

Ark., Nashville.—An officer of the Memphis, Dallas & Gulf Railway is quoted as saying that the company will let contracts directly to small contractors for its proposed extensions. Contract has been let to T. H. Sater & Bro. for the first two miles from Murfreesboro east toward Arkadelphia. Contract will be let in a few days on the next six miles. About 45 miles of line will be built this year. A. M. Van Auker, Nashville, Ark., is chief engineer.

D. C., Washington.—The Chesapeake Beach Railway, it is reported will build an extension of about 60 miles to Drum Point, Md. P. Y. Waters is general manager at 1416 New York Ave., Washington, D. C.

Fla., Gardner.—The Manufacturers Record is informed that the Gardner Lumber Co. expects to build a railroad from Gardner to Lake Stearns to open up 30,000 acres of land.

Fla., Live Oak.—An official letter says that grading is nearly completed on the line of the Florida Railway from Live Oak to Jacksonville and Fernandina, Fla., 110 miles. There will be two bridges over the Suwanee River, one over the Amelia River and one over the Kingsley River. Frank Drew is president; Geo. L. Drew, vice-president; T. P. Alston, secretary, treasurer and general superintendent, and J. W. Bushnell, chief engineer, all at Live Oak, Fla. The Florida Construction & Realty Co. of Jacksonville, Fla., is the contractor.

Fla., Live Oak.—The Florida Railway is reported to have awarded contract to L. and G. B. Baker for an extension from Live Oak to White Springs, 18 miles. Frank Drew is president at Live Oak, Fla.

Fla., Sanford.—T. K. Miller, president of the proposed Citrus Southern Railroad, is reported saying that survey is well advanced from Sanford to Kissimmee, Fla., and may be completed within two weeks.

Fla., Tampa.—The Atlantic, Okeechobee & Gulf Railway Co., says a report from Jacksonville, has accepted the charter granted, and construction will begin as soon as possible on the proposed line from Tampa to Miami, Fla., with branch to Fort Myers, and thence back to Tampa, also other branches, as previously noted. H. C. Ferriot is president; Robert H. Riley, vice-president, Audu-

Ga., Augusta.—The Augusta Railway & Electric Co. contemplates building a line on Center St. from Broad St. to either Calhoun or Taylor St., and thence to 3d St. The east-bound track of the Monte Sano line will be rebuilt. James U. Jackson is vice-president in charge.

Ga., Macon.—The Macon Railway & Light Co. will, it is said, begin work immediately on its extension to Rice's Mill Pond, 2½ miles. J. T. Nyhan is general manager.

Ky., Maysville.—The Maysville Public Service Co., capital \$150,000, has filed incorporation articles. Incorporators are A. M. J. Cochran, R. A. Cochran, W. D. Cochran, James H. Cochran, Horace J. Cochran, Wm. H. Cox; Horatio Ficklin, administrator Robert Ficklin estate; Eliza J. Foster, Samuel M. Hall of Maysville, Ky.; George L. Cox, Atlantic City, N. J.; Elizabeth Cunningham, Stranear, Scotland; T. A. P. Chadwick,

Vancouver, B. C., and Virginia Hechinger, trustee, Baltimore, Md.

La., Alexandria.—An officer of the Alexandria Electric Railways says that no improvements are contemplated at present. This denies a recent report. I. D. White is vice-president and general manager; Dr. J. A. White is president.

N. C., Charlotte.—Paul Chatham, who some time ago obtained a franchise for a street-car line to the Mecklenburg County Club, is reported preparing to begin construction, which must start by April 1.

S. C., Greenville.—The Greenville Traction Co., says a report, contemplates building second track on some of its line. E. F. Taylor is superintendent.

Tex., Beaumont.—The Beaumont Traction Co., says a report, will let contracts within a few weeks for about two miles of double track through the business section. C. H. Kretz is general manager.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

Air Compressors.—See "Marble Works Machinery."

Automobiles.—Board of Fire Commissioners, Fire Department, Baltimore, Md. Separate sealed proposals, addressed to Board of Awards, will be received by City Register at his office, City Hall, until 11 A. M. March 25, for furnishing Fire Department following: One automobile, one automobile supply wagon, one automobile chassis. Specifications furnished upon application to secretary of Fire Department; satisfactory bond in usual form in amount of contract required of successful bidders; certified check of bidder on some clearing-house bank, made payable to Mayor and City Council of Baltimore, must accompany each proposal in amount recited in specifications. The right is reserved to reject any or all bids. By order of Board; P. W. Wilkinson, secretary.

Bank Fixtures.—See "Vault, etc."

Bank Fixtures.—See "Building Materials, etc."

Barrels.—See "Fish Barrels, etc."

Boiler.—Oklahoma Rubber Co., H. E. Swan, secretary, Oklahoma City, Okla., wants prices on steam boiler, 6x18 feet, 100 pounds steam pressure.

Boilers.—See "Engines and Boilers."

Boiler.—Maryland Equipment & Supply Co., 449 Equitable Bldg., Baltimore, Md., wants prices on 60-horse-power Erie City Economic or Internally-fired boiler.

Boiler.—Southern Sand & Gravel Co., G. B. Strickler, Box 84, Fredericksburg, Va., wants prices on second-hand 100 to 125-horse-power return-tubular or locomotive type boiler with 100 pounds steam pressure. (See "Gravel-washing Plant.")

Brass Craft Work.—Oklahoma Institution for Feeble-Minded, Enid, Okla., wants catalogues, etc., on brass craft work; also prices on supplies.

Brick Machinery.—N. K. Freeman, McDiade, Tex., wants to buy or lease second-hand soft or stiff mud brick machinery.

Brick Machinery.—"A." Lock Box 157, Riverside, Ala., wants prices on second-hand nine-foot tempering clay wheel with automatic screw pin; state weight and freight rate; also wants prices on clay brick dies for hand yard, four dies to a mold; shipping point, Riverside.

Bridge Construction.—See "Road Construction."

Bridge Construction.—Macon, Dublin & Savannah Railroad, D. B. Dunn, chief engineer, Macon, Ga., will receive bids until March 30 on bridge across Okmulgee River; steel structure, on concrete piers and abutments; one draw span 248 feet, and two fixed spans of 125 feet each; plans and specifications can be seen at office of chief engineer.

Bridge Construction.—Bids received at Business Men's Association, Fredericksburg, Va., until March 24 for construction of 59-foot reinforced concrete bridge with four 16-foot slabs across Hazel Run; plans and specifications on file with A. F. Brown, resident engineer, Fredericksburg, and State Highway Commissioner, Richmond, Va.; certified check for \$100 to accompany each bid; further information furnished on application

to P. St. J. Wilson, State Highway Commissioner, Richmond.

Bridge Construction.—Ouachita County Commissioners, Camden, Ark., will receive sealed bids until 1 P. M. April 18 for construction of steel bridge across Ouachita River near Camden; certified check for \$500, payable to County Judge Metz D. Hale; plans and specifications on file in office of County Judge; usual rights reserved; D. V. Snow, member Board of Commissioners.

Bucket Machinery.—W. H. Thompson, Brookhaven, Miss., wants machine to manufacture bucket bottoms.

Building Materials, etc.—Atlee B. Ayers, 626 Bedell Bldg., San Antonio, Tex., wants prices on pressed brick for three sides of four-story bank building; also copper cornice, tile floor, bank fixtures, etc.

Building Materials.—J. S. Heatwole Company, Harrisonburg, Va., wants prices on structural iron, plaster, cement, oak flooring, original pine framing material and general line of mill work.

Building Materials.—J. D. Anders, Essex Bldg., Norfolk, Va., will receive bids not later than April 7 on four-inch hollow terra-cotta partitions, fire clay chimney flue lining, vitreous hexagonal tiles, asbestosite floors, structural steel and iron work, plaster, paint, mill work, mantels, heating, electric wiring and fixtures, weather strip (Chamberlain preferred), plumbing, slate and metal roofing, ornamental terra-cotta, etc.

Building Materials, etc.—Smith Construction Co., Athens, Ga., wants prices on mill work, slate roof, stone work, rubble granite, Bedford painting, etc.

Builders' Tools.—C. B. West, Greenville, N. C., wants prices on leveling and squaring instruments.

Butchers' Supplies.—See "Meat-cutting Machinery."

Cable.—Office of Chief Signal Officer, Capt. A. S. Cowan, disbursing officer, War Department, Washington, D. C., will receive bids until April 15 for furnishing 170 miles of single conductor cable, type 65, specification No. 520-A; to be made in two lengths of 57 miles each, and one length of 56 miles; successful bidder will be required to furnish bond in full amount of contract; to be delivered f. o. b. boat New York; information and name of vessel and sailing date to be furnished by Paul S. Carter, 313 Whitehall Bldg., New York; cable to be consigned to Bureau of Supply, Government of Philippine Islands, Manila, P. I.

Castings.—Levert Lumber & Shingle Co., Plaquemine, La., wants to correspond with manufacturers of malleable-iron castings.

Castings.—R. G. Richardson, Piedmont, W. Va., wants addresses of manufacturers of small gray and malleable castings.

Cement, etc.—C. B. West, Greenville, N. C., wants prices on 200 barrels of cement and 15 tons of cement plaster.

Clayworking Machinery.—A. E. Stephenson, care San Benito Light, San Benito, Tex., wants information and prices on machinery for making hollow clay building blocks; interested in hand machinery for experimenting.

Concrete Mixer and Hoist.—Southwestern Manufacturing Co., Oklahoma City, Okla., wants to correspond with manufacturers of electric-driven concrete mixer and hoist combined.

Concrete Blocks, etc.—Balfour Quarry Co., Asheville, N. C., wants addresses of manufacturers of concrete building blocks, sewer pipe, etc.

Confectioners' Supplies.—Alexander Candy Co., James Alexander, president, Portsmouth, Va., will want prices on chocolate and sugar.

Concentrating Machinery.—Big Eight Mining Co., Geo. W. Frary, president, Davis, Okla., wants prices on concentrating tables.

Cotton Twine.—R. L. Ballou, Uniontown, Pa., wants information and prices on cotton twine for manufacture of mops.

Corrugated Board.—American Box Co., Lynchburg, Va., wants addresses of manufacturers of fiber or corrugated board for packing.

Curbing and Guttering.—City of Columbus, Miss., E. S. Donnell, Mayor, wants delivered prices on 6000 linear feet of granite curbing; stones to be about 5x18 inches by 6 feet; street and alley corners to be radius of 6 feet and 3 feet respectively.

Crusher.—Eastern Railway Supply Co., 413 American Bldg., Baltimore, Md., wants rock crusher.

Dairy Equipment, etc.—R. E. Lee, Clemson College, S. C., wants information and prices on refrigerating system, dairy and dairy barn equipment.

Doors.—C. B. West, Greenville, N. C., wants prices on one pair iron grill doors, 8 feet by 9 feet 9 inches.

Defining Processes.—W. F. Gill, care of Trinity College, Durham, N. C., wants information on defining processes (tin from refuse cans), to include data on profit, prices on machinery, etc.

Drills.—Eastern Railway Supply Co., 413 American Bldg., Baltimore, Md., wants two second-hand steam drills.

Drykilm.—Proposals will be received at Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 A. M. April 22 for drykilm at U. S. Navy-yard, Norfolk, Va.; plans and specifications on application to bureau or to commandant of Navy-yard named; R. C. Hollyday, chief of bureau.

Electric Machinery.—See "Concrete Mixer and Hoist."

Electrical Fixtures, etc.—Oklahoma Institution for Feeble-Minded, Enid, Okla., wants electrical fixtures and supplies; send catalogues.

Electrical Machinery.—See "Ice-cream Machinery."

Electrical Machinery.—See "Marble-works Machinery."

Electric-light Plant.—Mayor and Board of Aldermen, Newton, Miss., will receive bids until 4 P. M. April 4 for material and machinery to erect electric-light plant; specifications can be seen at offices of G. M. Beaver, Mayor, and Xavier A. Kramer, engineer, Magnolia, Miss.; synopsis of specifications furnished upon request by engineer.

Elevator.—M. A. Younkman, Tulsa, Okla., wants prices on hand elevator.

Engine.—Boley Light & Power Co., Boley, Okla., wants oil or distillate engine; 40 horse-power or more.

Engine.—West Tennessee Investment Co., Dyersburg, Tenn., wants prices (for tenant) on 25 to 35-horse-power engine.

Engines.—See "Boilers, Engines, etc."

Engines.—Oklahoma Rubber Co., H. E. Swan, secretary, Oklahoma City, Okla., wants prices on 150-horse-power oil and 100-horse-power steam engines.

Engines and Boilers.—Casey & Michael, Harrisonville, O., want prices on second-hand 10 to 20 horse-power portable engines and boilers.

Engines, etc.—U. S. Engineer Office, Wheeling, W. Va. Proposals for furnishing and delivering river-wall valve jacks, gate engines, gate winches and air tanks for dam No. 26, Ohio River, will be received until 11 A. M. April 10; information on application; F. W. Aistetter, Captain, Engineers.

Filing Machines.—Carr & Jones, 222 S. 3d St., Chickasha, Okla., wants to correspond with manufacturers relative to arranging for manufacture of improvement in band-saw filing machines; improvement is fast automatic device for filing saws without removal from machine.

Fish Barrels, etc.—E. L. Deans, Gatesville, N. C., wants fish barrels; also two-gallon kits for packing herring roe.

Fertilizer Machinery.—Wm. C. Shaw, Greensboro, N. C., wants prices on machinery to manufacture fertilizers.

Foundry Equipment.—Spring Pipe Threader & Manufacturing Co., 16 N. 4th St., St. Louis, Mo., will receive bids about May 1 on equipment, including milling machines, motors, lathes, grinders, drill and tap machine, etc.

Gas Machines.—J. W. Bonsack, Bonsack, Va., wants addresses of manufacturers of gas machines for domestic purposes.

Gasoline Engines.—See "Planing Mill."

Grading.—Hamilton County Commissioners, Jasper, Fla., will receive bids April 3 for stumping and grading 30 miles of public road; specifications furnished on date named; J. B. Wetherington, Clerk Circuit Court.

Gravel-washing Plant.—Southern Sand & Gravel Co., G. B. Strickler, president, Box 84, Fredericksburg, Va., wants prices f. o. b. cars Massopano, Va., on machinery for sand and gravel-washing plant; machinery to include crusher, log washer, screens, boilers, engines, etc.; second-hand boiler and engine will be considered.

Heating Plant.—Gibson Furniture Co., 2219 Washington St., St. Louis, Mo., will install hot-water heating plant; down draft or smoke consumer; 50x142½-foot structure, with 15-foot ceilings; basement 7 to 8 feet high; four floors.

Heating Plant.—J. D. Anders, Essex Bldg., Norfolk, Va., will receive bids not later than April 7 on heating plant. (See "Building Materials.")

Heating Plant.—H. O. Thrush, Keyser, W. Va., wants prices on heating plant for \$400 dwelling.

Heating Plant.—Edward A. Nolan, 216 Curry Bldg., Tampa, Fla., wants prices on furnace.

Heating and Ventilating Equipment, etc.—Hickman-Benner Company, Greensboro, N. C., wants catalogues and prices on equipments and supplies of interest to heating and ventilating engineers and contractors.

Hoist.—See "Concrete Mixer and Hoist."

Hoisting Engine.—Maryland Equipment & Supply Co., 449 Equitable Bldg., Baltimore, Md., wants prices on 35 to 40-horse-power double-cylinder double-friction drum-hoisting engine, with drums parallel, skeleton type.

Ice-cream Machinery.—Alexander Candy Co., James Alexander, president, Portsmouth, Va., wants prices on improved ice-cream freezer and motor; capacity, 40 gallons.

Ice Plants.—McClay Martin, Kingtree, S. C., wants to correspond with manufacturers of ice plants.

Laundry Machinery.—Peter Eronomos, Tarpon Springs, Fla., wants to correspond with manufacturers of or dealers in steam laundries; would consider second-hand.

Laundry Machinery.—West Tennessee Investment Co., Dyersburg, Tenn., wants prices (for tenant) on laundry machinery.

Laundry Machinery.—State Board of Charities, R. W. Hart, secretary, Statehouse, Little Rock, Ark., wants prices on complete laundry equipment.

Lighting Plant.—H. O. Thrush, Keyser, W. Va., wants prices on lighting plant for \$800 dwelling.

Levee Construction.—Board of State Engineers, 213 New Orleans Court Bldg., New Orleans, La., will receive sealed proposals until 12 noon March 30 for construction of Luca Levee, in Desha county, on right bank of Mississippi River, about 12 miles above Arkansas City; new levee about 7300 feet; average height about 19 feet; contents 350,000 cubic yards; deposit required \$950; bond \$17,500; cash or certified check to amount named as deposit must accompany each bid; usual rights reserved.

Locomotive.—Jos. E. Bowen, 901 Bank of Commerce Bldg., Norfolk, Va., wants 12x16 or 18 standard-gauge mogul or 10-wheeler.

Locomotives.—Pennsylvania Equipment Co., West End Trust Bldg., Broad St. and S. Penn Sq., Philadelphia, Pa., wants two second-hand standard-gauge six-driver switching engines; to weigh 50 to 75 tons on drivers, the heavier the better; prompt delivery.

Marble-works Machinery.—Lexington Monumental Works, Joseph W. Fuller, general manager, Lexington, Tenn., wants prices on electrical and power-driven polishing machines, air compressor, polishing supplies, air appliances, etc.

Meat-cutting Machinery.—Carlo Marchisio, Corso Principe Oddone, 73, Torino, Italy, wants to correspond with manufacturers of machines for slicing meat, ham, sausages, etc.

Metal Frames and Sash.—William Seymour, 281 Wabash Ave., Chicago, Ill., wants 50 large metal frames and sash, with wired glass.

Milling Machinery.—Casey & Michael, Har-

risonville, O., want prices on French buhr grinding mills.

Motors.—See "Foundry Equipment."

Motor Cars.—J. W. Smith, Gainesville, Fla., wants addresses of builders of gasoline or oil-propelled cars for street or suburban lines.

Organ-factory Machinery.—Shalman Organ Co., E. A. Snow, president, High Point, N. C., will want prices on second-hand machinery for organ factory.

Overall Machinery.—Box 163, Charlotte, N. C., wants information and prices on sewing machinery and all equipment for manufacture of overalls, jumpers, etc.

Paving.—J. B. Winslett, City Secretary, Dallas, Tex., will receive bids until 3 P. M. March 29 for paving Second Ave. from Gulf, Colorado & Santa Fe Railway to Grand Ave.; each bidder to bid on following materials: Asphalt macadam pavement, concrete curbs, concrete gutters and combination concrete curb and gutter; certified check \$200. Mr. Winslett will also receive bids until 3 P. M. March 29 for paving 10th St. from Lancaster Ave. to Polk St.; separate bids to be submitted on following materials: Bitulithic pavement, vitrified brick or blocks, crossotred pine block, rock asphalt, asphaltic concrete, asphalt macadam, concrete curbs, concrete gutters, combination concrete curb and gutter. Plans and specifications on file in office of City Secretary.

Paving.—F. J. Von Zuben, acting City Engineer, Fort Worth, Tex., will receive bids until 9 A. M. March 28 for improvement of West Belknap St. from Houston St. to Royal Ave., about 6,710,894 square yards, with one of the following materials: Bitulithic, rock asphalt and vitrified brick; also for constructing combined curb and gutter around parkways; specifications prepared by City Engineer and on file, together with proposal forms, in his office; certified check \$1000; J. H. Maddox, Commissioner of Streets and Public Property; W. J. Estes, City Secretary.

Paving.—J. B. Winslett, City Secretary, Dallas, Tex., will receive bids until 3 P. M. March 24 for paving Ash La., Parry and Fourth Aves., Elihu, Gunther and Jackson Sts.; separate bids to be submitted on following materials for all streets except Jackson St.: Asphalt macadam, concrete curbs, concrete gutters, combination concrete curb and gutter; separate bids to be submitted on following materials for Jackson St. paving: Vitrified brick or blocks, crossotred pine blocks, concrete curbs, concrete gutters, combination concrete curb and gutter; specifications on file with City Secretary.

Paving.—Proposals addressed to Mayor and General Council, Atlanta, Ga., endorsed in name of bidder, will be received at City Clerk's office until 3 P. M. April 3 for paving North Boulevard from Ponce de Leon Ave. to near 10th St. with crossotred wooden blocks, about 8250 square yards; specifications furnished on application to R. M. Clayton, chief of construction; certified check in amount specified in specifications to accompany each bid.

Paving.—City of Hugo, Okla., R. L. Jones, Mayor, will let contract March 29 for paving 30 blocks; asphalt on 6-inch base.

Paving.—Bids will be received at office of W. P. Chandler, recorder of Mayor and Aldermen, Knoxville, Tenn., until noon April 5 for construction of paving, curbing and guttering in improvement districts No. 89 (North Central St.) and No. 41 (Eleanor St.); to include 14,000 square yards of paving, 5000 square yards of grading, 6000 linear feet of curbing and 3000 linear feet of storm sewers; plans and specifications may be seen at office of City Engineer, City Hall.

Piping.—City of Gadsden, Ala., W. G. Belenger, Mayor, will want prices on 8, 10 and 12-inch water mains.

Planing Mill.—Beckwith & Pepple, Foley, Ala., want prices on planers, matchers, edgers, gasoline engines, etc., for complete planing-mill equipment for sash, doors and blinds.

Plaster.—See "Cement."

Poles, Insulators, etc.—Office of Chief Signal Officer, Capt. A. S. Cowan, disbursing officer, Washington, D. C. Sealed bids will be received until March 25 for furnishing 425 iron crossarms for iron poles, complete, with bolts, specifications 226-A, 96-B, drawings 74-A-1 and 106; 50 iron poles, specifications 226-A; 10,000 insulator plugs, specification 178-B and drawing 75-1; send for specifications.

Pump.—William Seymour, 381 Wabash Ave., Chicago, Ill., wants 50-gallon-per-minute electric pump.

Punch and Shear.—Georgia Foundry & Machine Co., Rome, Ga., wants power punch and

shear; second-hand in good condition preferred.

Rafia, etc.—Oklahoma Institution for Feeble-Minded, Enid, Okla., wants rafia and reed basketry; send catalogues.

Refrigerating Machinery.—See "Dairy Equipment, etc."

Road Construction.—C. C. Dunn, chairman Good Roads Commission, Meridian, Miss., will receive bids until 2 P. M. April 4 for construction of Causeway, Marion, Poplar Springs and Arundel Springs Rds.; for information, specifications, proposal forms and instruction to bidders address W. P. Moore, chief engineer, Meridian.

Road Construction.—Contract will be awarded April 10 at engineer's office in Courthouse, Cookeville, Tenn., for construction of road amounting to \$100,000; specifications and further information on application to J. N. Cox, secretary Putnam County Good Road Commission.

Road Construction.—Talbot County Commissioners, Easton, Md., and Caroline County Commissioners, Denton, Md., will receive new bids until noon April 3 for grading and macadamizing about .83 mile of Dover Bridge Rd.; work includes pivot drawbridge and 70-foot steel span over Choptank River, together with necessary piers, abutments, fender work, etc.; plans and specifications on file in office of County Commissioners at Easton and Denton, Md.; proposals to be made on forms furnished by State Roads Commission, to be obtained through its office in Baltimore, Md.; each bid to be accompanied by certified check for \$200; Joseph B. Harrington, clerk Talbot County Commissioners, Easton, Md.; William H. Anderson, clerk Caroline County Commissioners, Denton, Md.

Road Construction.—Bids will be received until noon April 3 for grading and graveling of 11 1/4 miles of road in Dallas county, Alabama, beginning at Plantersville, Ala., and extending south toward Selma, Ala.; profiles and specifications on file in office of G. R. Thomas, County Engineer, Courthouse, Selma, Ala.; certified check \$1000.

Road Construction.—Sealed proposals will be received at Clerk's office of Rappahannock county, Washington, Va., until 12 noon March 29 for construction of about 7 1/2 miles of macadam road from Flint Hill to Warren county line; plans and specifications on file at Clerk's office, Washington, Va.; specifications furnished on application to undersigned; certified check for \$500 to accompany each bid; usual rights reserved; P. St. J. Wilson, State Highway Commissioner, Richmond, Va.

Road Work.—Grenada County Supervisors, Grenada, Miss., invite bids to work all public roads, build steel and reinforced concrete bridge, construct new road in District No. 5 and repair Cane Creek Bridge, District No. 5; plans and specifications on file in clerk's office.

Road Roller and Scarifier.—W. F. Muller, supervisor of Richland county, Columbia, S. C., will receive bids until noon April 3 for furnishing 10-ton motor roller and road scarifier; W. C. Thomas, clerk of board.

Rope Machinery.—J. H. Beverley, Fort Stockton, Tex., wants data and prices on machinery for manufacturing rope from lechugrulla and Spanish dagger plants.

Safe, Vault, etc.—Citizens' Bank of Sarasota, Sarasota, Fla., wants prices on safe, vault and other bank fixtures.

Safe, Vault, etc.—Bank of Vass, D. A. McLauchlin, secretary, Board of Directors, Vass, N. C., wants prices on safe, vault and other bank fixtures.

Safe, etc.—L. N. Frantz, Windling Gulf Bank, Mullens, W. Va., wants prices on safe, vault and bank fixtures.

Sawmill Machinery.—Saner-Whiteman Lumber Co., John C. Saner, president, Caro, Tex., will open bids within 10 days for installation of sawmill machinery.

Saw-filing Machines.—See "Filing Machines."

Screens.—See "Gravel-washing Plant."

Sewer Pipe.—See "Concrete Blocks, etc."

Sewer Construction.—John D. Walker, Mayor, and City Council, Sparta, Ga., will receive bids at once for construction of sewer system; plans and specifications on file in office of W. H. Stansell, City Clerk, and can be sent to those interested.

Sewer Construction.—T. C. Hughes, City Engineer, Tulsa, Okla., will receive bids until 5 P. M. March 28 for construction of extension of 15 feet to 48-inch storm sewer on 4th St., near Owasso Ave.; plans, profiles and specifications on file in office of City Engineer; bids to be made upon official proposal sheets; certified check, 5 per cent. of bid.

Sewing Machines.—See "Overall Machinery, etc."

Signals and Shells.—Office of Chief Signal Officer, Capt. A. S. Cowan, disbursing officer, War Department, Washington, D. C., will receive bids until March 28 for furnishing 1650 signals, "Pain's Signal Lights," 1 1/2 in diameter, 23 3/4 inches long over all, the handle to project 3 1/2 inches outside of pasteboard tube, 10-minute, red; 100 amber smoke shells, 100 red shells and 50 white shells; shells are to be of the Signal Corps pattern, each to be packed in hermetically-sealed tin case about 5 inches diameter and 12 1/2 inches long, with easily removable tin strip securing the top, and with labels and directions for use on each case; wind matches and port fire to be supplied; samples of signals and shells may be seen at Signal Corps laboratory, 1710 Pennsylvania Ave., Washington, D. C.

Sprinkler System.—Eunice Rice Mill Co., W. H. Hunter, Jr., secretary, Eunice, La., wants prices on sprinkler system for 1200-larrel rice mill.

Sprinkling-dust Machinery.—Gilkey Veneer Co., Marion, N. C., wants to correspond with manufacturers of machinery for making "Floor Sweep" or "Dust Down" (preparation for use in sweeping).

Sprinkler Heads.—William Seymour, 381 Wabash Ave., Chicago, Ill., wants 500 sprinkler heads.

Steel Springs.—Lewis & Talley Co., 429 Brown-Marx Bldg., Birmingham, Ala., wants large quantity steel spiral springs; wants to correspond with manufacturers.

Tanks.—William Seymour, 381 Wabash Ave., Chicago, Ill., wants 8000-gallon or 4000-gallon wooden tank; also 4000-gallon iron pressure tank.

Telephone Equipment.—Office of Chief Signal Officer, Capt. A. S. Cowan, disbursing officer, War Department, Washington, D. C., will receive bids until March 31 for furnishing large and miscellaneous lot of telephone switchboards, wall and desk telephones, cable terminals, etc. Send for specifications.

Textile Machinery.—See "Rope Machinery."

Tin Boxes.—J. W. Baggett, Box 105, Erin, Tenn., wants tin blacking boxes.

INDUSTRIAL NEWS OF INTEREST

Company Wants Agents.

The Velvet Edge Company, Keyser Bldg., Baltimore, Md., wants agents everywhere on commission. This company resharps safety-razor blades of all kinds.

Change in Mexico City Address.

Walter Ennes, manager of the Buckeye Electric Lamp Co. at Mexico City, announces that the company's office there has been removed from Avenida 16 de Septiembre No. 5 to Avenida Jaurez No. 14.

New Orleans Real Estate Firms.

Indicative of the increased interest in farm lands in Louisiana, the firm of Ely & Sidman has just been formed, with headquarters at 1047 Hibernia Bank Building, New Orleans. The members of this firm expect to see a great development in the real estate business throughout Louisiana in the next few years, and propose to devote their attention to timber, farm and mineral lands in their city's vicinity.

Representation in Southern Cities.

The Williamson Bros. Company of Philadelphia, manufacturer of the well-known Williamson hoists, has made arrangements for representation in the following Southern cities: Memphis, by Dixie Machinery Co., 1628 Exchange Building; Birmingham, by W. W. Moore, 421 Empire Building; Omaha, by Joseph R. Lehmer; Augusta, by Lombard Iron Works & Supply Co.; Atlanta, by Bourdene-Malone Company.

Hazlehurst & Anderson.

James Nisbet Hazlehurst and Charles Louis Bates Anderson, associated as consulting engineers under the firm name of Hazlehurst & Anderson of Atlanta, Ga., and Wilmington, N. C., announce a dissolution of partnership. Mr. Hazlehurst will continue the practice of consulting engineer at Atlanta and will complete all engagements for which the firm was obligated. Mr. Anderson becomes associated, as chief engineer, with the Clarendon Construction Co. of Wilmington.

San Angelo Plant.

The San Angelo Foundry & Machine Co., which was moved to San Angelo, Tex., from Temple, has completed its foundry building and is now in operation. The large machine shop which is being built in connection with the foundry will be completed and ready for operation in about three weeks. The plant

Turpentine Machinery.—C. M. Calvit, Alexandria, La., wants to correspond with manufacturers of portable or stationary plants to manufacture turpentine from timber and stumps on cut-over lands.

Vault, etc.—Union State Bank, R. B. Boettcher, cashier, East Bernard, Tex., will need vault and bank fixtures after June 1.

Ventilating Equipment.—See "Heating and Ventilating Equipment, etc."

Water-works.—City of Caldwell, Tex., J. A. Gray, Mayor, will open bids April 6 for construction of concrete foundation and 16x100-foot steel standpipe; J. A. Gray, Mayor.

Water-works.—Mayor and City Council, Sparta, Ga., will receive bids at once for construction of water-works; plans and specifications on file at office of City Clerk, or can be sent to those interested; John D. Walker, Mayor; W. H. Stansell, clerk.

Water-Works.—Morehead City, N. C., W. G. Hales, Clerk, will receive bids until April 20 for installing and furnishing material for water-works; plans and specifications on file for further information address G. D. Canfield, chairman, Water-Works Committee.

Woodworking Machinery.—Carpenter, Taylor & Co., Rutherfordton, N. C., want planer and matcher to dress four sides; scroll band saw about 36 inches; second-hand.

Woodworking Machinery.—Casey & Michael, Harrisonville, O., want prices on woodworking machinery.

Woodworking Machinery.—K. B. Harvey, Fort Myers, Fla., wants to correspond with manufacturers of (special) woodworking machinery.

Woodworking Machinery.—A. M. Prince, Arcadia, Fla., wants new or second-hand woodworking machinery.

Woodworking Machinery.—See "Bucket Machinery."

Woodworking Machinery.—A. J. Orr, Washington, Ga., wants second-hand planer, matcher and molder.

Woodworking Machinery.—Rock Hill Buggy Co., Rock Hill, S. C., wants second-hand multiplier wood-boring drill, cut-off saw and tenoning machine.

is valued at about \$15,000 and the capacity is four tons of castings per day. William Willig is president of the company.

Increasing Manufacturing Facilities.

The General Fireproofing Co. of Youngstown, O., announces that, owing to the remarkable growth of its steel-furniture and herringbone-lath business, it has sold its entire bar and fabricated-beam reinforcement department to the General Reinforcement Co. of Youngstown. This move has been made to gain necessary additional manufacturing facilities which will permit of specializing along the metal-lath and furniture lines, in which the company is a pioneer.

New Hydro-Electric Power Plant.

The Highland Power Co., Boulder, Col., is preparing to construct a high-head hydro-electric power plant, with H. von Schon, civil and consulting engineer, Wayne County Savings Bank Bldg., Detroit, as the consulting engineer. Mr. H. von Schon is a member of the American Society of Civil Engineers and of the German Society Turbine Technique. In addition to his Detroit office, he has offices at 103 Park Ave., New York; Forsyth Bldg., Atlanta; Springfield, Mo., and Pierre, S. D.

Ice-Plant Contract.

The Fort Wayne Electric Works, Fort Wayne, Ind., will furnish a 15-kilowatt generator for the Mandeville Light & Ice Co. of Mandeville, La., which has closed contract with A. M. Lockett Company of Mandeville for the construction of complete ice and refrigerating plant. The Fred W. Wolf Co. of Chicago will furnish the plant, with capacity of 10 tons of ice and 5 tons refrigeration. The engine will be supplied by A. L. Ide & Sons, Springfield, Ill. The engineer of the plant is E. A. Sammons of New Orleans.

Visited the Triumph Plant.

A delegation of third-year students from the Kentucky State University, Lexington, Ky., visited the plant of the Triumph Electric & Ice Machine Co. at Cincinnati on March 15, and were conducted through the plant by employees, who explained the various methods of manufacture. The visitors were particularly interested in machine-tool design, and had selected the Triumph company as part of their itinerary on account of the modern and up-to-date equipment employed in the Triumph shops. A most in-

structive and pleasant time was spent by the students, who left on a late afternoon train en route for Hamilton to inspect some of the large factories in that town.

An Innovation in Calendars.

C. Edwin Michael, president of the Virginia Bridge & Iron Co. of Roanoke, with branch offices at Atlanta, Memphis and New Orleans, in issuing a calendar for 1911 has introduced his idea of securing business by post cards between the calendar sheets. The post cards are large enough for lengthy requests for material, information, etc., are already addressed to the firm, and are easily detachable from perforated stub. This stub bears advertising information regarding the firm. Patent for this innovation has been applied for.

Central Foundry Co. Reorganization.

The receiver of the Central Foundry Co., 91 West street, New York, states that the necessary steps leading to reorganization will shortly be complete, so that the enterprise will be free from the bankruptcy court. The business is continuing without interruption, and orders will continue to be received and filled as heretofore. In view of the gratifying support always received by this company from its customers, it is a satisfaction to know of the rapid progress being made toward re-establishing the regular business organization of the Central Foundry Co.

Metal Casement Windows.

Architects, engineers and builders are familiar with the merits of Detroit Fenestra solid steel windows manufactured by the Detroit Steel Products Co. of Detroit, and will be interested to know that this company has just become the exclusive distributor in the United States for the metal casement windows manufactured by the Crittall Manufacturing Co., Ltd., of London, Eng. The Detroit Steel Products Co. is now prepared to furnish designs and estimates for this material for use in construction of office buildings, banks, public buildings and high-class residences.

Band Saw Filing Machines.

Messrs. Carr & Jones, 222 S. 3d St., Chickasha, Okla., advise the Manufacturers Record that they have patents pending for improvement in band-saw filing machines. They write as follows: "This is a fast automatic device for filing hand saws without removing them from machine, the only one we know of at present doing this particular kind of work. An ordinary hand saw 13 feet 6 inches in circumference that it generally takes as much as two hours to file, we file with this machine in from five to ten minutes. We either want to sell this machine outright or have it manufactured on a royalty."

Foundation of Raymond Concrete Piles.

The foundation of the apartment building in process of construction at Charles and Read streets, Baltimore, will consist of over 250 Raymond concrete piles, which are being employed by the Raymond Concrete Pile Co., engineer and contractor of Baltimore, New York and Chicago. These piles will be 22 feet long, tapering from 18 inches down to 8 inches. The architects for this building are Glidden & Friz, 16 St. Paul street, Baltimore, and the contractors have all been closed, consisting of 32 individual contracts in all. General Clinton L. Riggs is the owner, and the building will be a modern fireproof, concrete and terra-cotta structure.

Prominent Southern Contractors.

That Southern contractors are active in obtaining contracts in various parts of their section of the country is evidenced in many recent announcements. Prominent among these contractors is the firm of Sullivan & Long, with main offices at Bessemer, Ala. This firm has recently obtained contracts for \$95,000 worth of wood-block paving and \$26,000 worth of sewerage at Mobile, Ala.; \$40,000 worth of sewer work at Greenville, S. C.; \$30,000 worth of sewer systems at Union City, Tenn.; \$20,000 worth of sewer work at Uniontown, Ala., and a large contract for gas-main connections, dam construction, etc., for the Woodward (Ala.) Iron Co.

Switch Property Offered.

The expenses falling upon manufacturers and shippers in cities where long and troublesome switching hauls are encountered are eliminated in the case of the Hafner Manufacturing Co.'s manufacturing and warehouse property at 2d and Dock streets, St. Louis. This company has 60,000 feet of floor space for lease or rent, with connections in 15 minutes rail hauling distance to depots of Louisville & Nashville, Chicago & Eastern Illinois, Rock Island, Frisco, Iron Mountain,

Missouri, Kansas & Texas, Wabash, and Burlington railroads. The tracks run in front and rear of building, so that quick handling is assured, and the building is located in the heart of the greatest railroad section of the city. For information address Hafner Manufacturing Co., 2d and Dock streets, St. Louis.

Contracts for Concrete Work.

H. G. Ruscher of Natchez, Miss., writes the Manufacturers Record that he has closed contracts for work at the plant of the Natchez Packing Co., including concrete stock-pen floors, concrete foundations and floors for the addition to the plant, a concrete reservoir 40x40 feet by 6 feet 6 inches, and all plastering throughout the plant. He also has a contract with the General Fire Extinguisher Co. of New Orleans to build piers for a 10,000-gallon tank to be erected in the Natchez Packing Co.'s plant. A Helm machine with capacity of 1000 bricks per day is used in manufacturing the cement bricks and concrete building blocks. Another Ruscher contract is for a large reinforced and waterproofed concrete swimming pool in the Bogalusa (La.) Young Men's Christian Association building.

Embossed Metal Letters.

Included in the numerous stamped and formed metal specialties of the Niagara Falls Metal Stamping Works, Niagara Falls, N. Y., is a complete line of embossed sheet-metal letters and figures in five sizes from one to four inches of aluminum and brass. The aluminum work is warranted to be 99 per cent. pure and to neither rust, tarnish nor corrode. The brass letters are lacquered to prevent tarnish. These letters are largely used for names on boats, and the range in size and finish permits the making of any style of sign that is wanted, as well as their use for street names, house numbers, etc. These letters and figures are packed in attractive compartment showcases boxes, displaying the stock to advantage, assisting materially in making sales, besides making an attractive exhibit in the retailer's display.

Experiences With Leadite.

The Leadite Co., George McKay, president, 1232 Land Title Building, Philadelphia, has received a statement from W. C. Hawley, chief engineer and general superintendent of the Pennsylvania Water Co., Wilkesburg, Pa., to the effect that "Leadite" has been used by that company for nearly five years, and 12 miles of the mains are laid with it under pressure of 175 pounds per square inch. He has used it on pipe from 4 to 30 inches in diameter with entire satisfaction. The company used it on another stretch of pipe five miles long, in which every joint was tested, and no leak was found at any time. He concludes his statement in saying: "We find 'Leadite' much less expensive to use in making joints than lead, and that in bad ground it is invaluable, as there is no necessity for maintaining the trench while the joint is being caulked, but as soon as the joint is run it is finished."

Blower-Pipe Work.

Skinner Bros., 1013 N. Broadway, St. Louis, have for 20 years been engaged in sheet-metal work, but making a specialty of blower-pipe work for woodworking shops, planing mills, furniture factories, etc. One of the firm's recent orders is for the woodworking shops of the Missouri, Kansas & Texas Railway at Denison, Tex. This is a dust-collecting system with a fan of 80 inches diameter direct connected to electric motor. The discharge pipe runs 100 feet, emptying into three separators; two of these collect the shavings for boiler feed, and the third is used for loading cars. A considerable amount of the shavings and sawdust is collected and shipped to various places for locomotive firing and other uses. Another installation being made by Skinner Bros. is for the Union City Body Co., Union City, Ind., manufacturer of automobile bodies.

Kahn System Concrete Warehouse.

One of the largest storage warehouses in the Southwest is being constructed at Beaumont, using the Kahn system of reinforced concrete. This system of reinforcement is controlled by the Trussed Concrete Steel Co. of Detroit. The building is a four-story structure, 90x120 feet, and fireproof throughout, no wood being used in its construction. Another similar class of building is being erected in Houston on this system. A feature of the Beaumont warehouse is that a driveway 30 feet wide is so made that drays may unload directly to the automatic freight elevator on the main floor. There will be 45 rooms on each floor constructed with the same regard to safety as a bank vault, so that only the renter who is provided with a

key will have access to it, and in case fire should occur in one room it cannot spread.

Higgins Metal Frame Screens.

The McDaniel Screen & Flooring Co. of Charlotte, acting as agent in North and South Carolina, reports several contracts recently closed for Higgins metal-frame screens and metal weather strips, manufactured by the Higgins Manufacturing Co. of Newport, Ky. These screens are all metal, and they have been designed to give satisfactory use in keeping out disease-spreading insects. They have been successfully used for 14 years, and the sales constantly increase. The contracts for furnishing screens include residences of H. B. Mebane, secretary, and Robt. S. Mebane, president of Republic Cotton Mills, Great Falls, S. C., also the company stores; Rutherford Hospital, Rutherfordton, N. C.; Elmore Apartments, Charlotte; residence of O. C. Bailey, Clinton, S. C. Contracts for weather strips include residence of A. J. Draper, Charlotte, N. C., and the McDaniel company hardwood-floor contracts include residence of W. H. Westall, Asheville, N. C.; H. D. Wheat, Gaffney, S. C.; A. H. Galloway and J. K. Norfleet, Winston-Salem, N. C.

Efficiency Talks.

In connection with the large amount of attention being given at the present time to efficiency in factory production, railroad management and similar lines, the Burroughs Adding Machine Co. of Detroit calls attention to the possibilities of efficiency in the advertising, selling and accounting departments of business affairs. The company is publishing a series of "efficiency talks" in various newspapers, entitled "After the Day's Work," and will publish in the Caxton Magazine 13 articles, the first of which is entitled "Lewis, Builder of Business." The Burroughs accounting-book "Cost Keeping Short Cuts" is a specific example of the efficiency doctrine as applied to the subject of costs. Another of the Burroughs efficiency methods is that of holding salesmen's conventions at its plant, which conventions are referred to as the school of salesmanship. The expenses of attendance are paid by the company, and it is stated that a great deal of valuable information is disseminated and enthusiasm generated in the selling force.

A. Leschen & Sons Rope Co.

The annual gathering of the traveling salesmen and branch managers of the A. Leschen & Sons Rope Co. was recently held in St. Louis. The representatives cover every State in the Union and some foreign sections as well, some of the men coming from Mexico and Canada. The wire-rope manufacturing of A. Leschen & Sons Rope Co. is one of St. Louis' oldest industries, and is unique in the fact that during its 54 years of business the style of the firm name has remained practically unchanged. The enterprise is one of the largest of its kind in the United States, and its product is shipped to every wire-rope consuming section of the United States and to many foreign countries. One interesting feature of the Leschen business is the erection of aerial wire-rope tramways for the transportation of material across mountains or otherwise difficult stretches of country. Some of the aerial tramways are built as long as 16 miles. The carrying capacity may be made as high as 200 tons per hour.

Avery Company Motor Trucks.

The Avery Company, Peoria, Ill., used the first of its motor trucks for hauling between factory and freight depots. As an illustration of the faithful service that may be rendered by a motor when treated "halfway decently" may be noted the motor used in that first of the Avery Company's trucks. The motor was originally used as one of two motors in a 48-foot motor boat that won the prize in an endurance run between Peoria and Henry, a distance of 32 miles. It was next used in an experimental portable engine that operated a thresher in Minnesota. After being installed in the truck the behavior of the engine was so gratifying that it was taken to the farm, where it plowed 45 acres, harrowed, disked and planted 75 acres, and after 30 days of similar service was taken back to the factory and put to work at trucking. It was then taken to the Winnipeg and Brandon competitions and won the Brandon gold medal and Winnipeg silver medal; then returned to truck service, and about the only time it has required repairs was after it had been knocked 25 feet by a collision with a freight car, when a three-day job repaired it for service. The Avery Company manufactures agricultural implements, farm wagons, engines, threshers, gang plows, farm tractors, heavy traction engines and motor trucks. It says the principal requirements in the economical use of

trucks as deduced from its experience are as follows: "Get a truck that is built strong and reliable and that has had sufficient experience behind it and has 'made good'; employ a driver with 'machine sense'; get a truck of the size to meet requirements; a three-ton truck seems to have the widest range; in extreme cases it can carry four or five tons, is not too heavy for average work, and is entirely practical for one, two or three-ton loads, and the load may vary over a wide range of one to five tons."

Successful Sale at Knoxville.

Among the best-known industrial plant auctioneers of the country may be named J. E. Conant & Co. of Lowell, Mass. This firm undertakes to dispose of properties regardless of location. It recently conducted the sale of several properties of the Knoxville Woolen Mills at Knoxville, Tenn. The sale was well attended, and the machinery, buildings, etc., were disposed of to advantage. As indicative of this, it may be mentioned that the real estate was assessed for \$100,000, and the seven lots were sold for about \$80,250; the machinery and mechanical equipment was assessed for \$107,000, and sold for about \$88,000. Buyers were present from the Southern, Western, Central and New England States to the number of about 350, of whom 200 came from a distance varying from 200 to 1000 miles. The sale began on Wednesday at 10 A. M., and by 11:30 A. M. the seven parcels of real estate had been separately sold. By 5 P. M. 552 lots of equipment had been sold. On Thursday the sale started at 10 A. M., and at 4:30 P. M. the last lot, No. 1423, had been disposed of. The total of sales for the day amounted to about \$148,000. Owners who may contemplate selling machinery, buildings or other property are invited to correspond with Conant & Co.

Harris Granite Quarries Co.

In a recent interview with B. T. Fendall, City Engineer of Baltimore, regarding his experience in the use of Salisbury (N. C.) paving blocks, he made the following statement: "Before permitting the use of the block by contractors having contracts with this department I went to Salisbury, N. C., made thorough and careful examination of the quarries, of the output and into the methods of manufacture, and returned to Baltimore entirely satisfied in every particular, and authorized the contractor to use the blocks under his contract. The company having these quarries owns an enormous amount of granite with a great many openings, and apparently have ample capital for the operation of the quarries, and at the time I visited the quarries they had a very large number of blocks ready for shipment. The granite is exceptionally hard, and, according to the Watertown arsenal tests, shows greater resistance to crushing than any granite that I know of in this country. It splits very evenly, with a clean, straight fracture, which is an essential feature in the economical manufacture of granite blocks. With the Salisbury blocks there is no trouble in meeting the specifications providing for one-half inch as the maximum width of joint. They can also give very excellent surface or face to the block. If their prices are lower than the prices named by the Maine and other New England quarries I see no reason why Baltimore should not use these blocks in all of its work. While at the quarries I also observed some very excellent curbing and dimension stone which they were getting out for building and monumental work." The Salisbury paving blocks referred to by Mr. Fendall are quarried and finished by the Harris Granite Quarries Co. of Salisbury, N. C., and are distinctively known for the "Balfour specification" qualities.

TRADE LITERATURE.

Surrell Double Draft Boiler Co.

Surrell boilers for high and low pressure represent a departure from the ordinary type of tube boilers. They are described in a pamphlet issued by the Surrell Double Draft Boiler Co., 85 Liberty St., New York. Tests made of this boiler showing efficiency and other data are also furnished.

American Ingot Iron.

The American Rolling Mill Co., Middletown, O., has issued an attractive booklet entitled "The Proof—American Ingot Iron Rust Resisting." In addition to a complete and lucid statement on the corrosion of iron and steel and its causes, the booklet contains useful tables on sheet-metal work, black and galvanized sheets, roofing, siding, culvert construction, list prices, etc. It is practically an encyclopedia of sheet-metal and culvert information. The popularity of American ingot iron as a rust-resisting prod-

net is said to be growing in this country and abroad, and the arguments for this metal in the booklet are conclusive.

"Eagle" Anvils.

Fisher patent "Eagle" anvils and Fisher double-screw parallel vises as manufactured by Fisher & Norris, Trenton, N. J., are described and illustrated in a pamphlet, which also gives tables of dimensions, weights and prices. Anvils for blacksmith work, for horseshoers, axe makers, saw makers, gin-saw makers, chain makers, plow makers and other special anvils are described. The "Fisher-Brooks" vise is similarly described in a folder issued with the pamphlet.

A New Principle in Saws.

The International Endless Chain Saw Co., 24 University Place, New York, in issuing its illustrated catalogue states that hitherto in all saws the blade has moved with the teeth, but with the endless chain saw the blade is stationary and the teeth move. The saw consists of a thin steel blade with a groove in its upper end, carrying a flanged sprocket wheel through which the endless chain with teeth runs. Eight-foot logs can be sawn in two in five minutes.

L. A. Green Company.

The catalogue issued by the L. A. Green Company, Park Building, Pittsburg, gives instructions for ordering material and shows line drawings of the various railroad switches, frogs, crossings, switch stands, spring connecting rods, rail braces, derailing device, guard rails, standard turnout for coal mines, fish plates, step chairs, etc., as manufactured by the company. This company has a separate department for handling new and relaying rails, machinery and equipment for mills, mines and contractors. It also manufactures the above articles from designs and plans specially furnished by purchaser.

Crocker-Wheeler Induction Motor.

Bulletin No. 126 of the Crocker-Wheeler Company, Amper, N. J., is of interest to everyone connected with the application of motor drive to industrial machinery. It is fully illustrated with half-tone engravings which show the details of construction of the machines, with complete descriptions and many interesting applications of the motors in actual use. This motor is of the squirrel-cage type, which eliminates danger of explosions due to sparks, as there are no sliding contacts. Its extreme simplicity of construction makes it practically "fool proof," and the possibility of using it in connection with a high-tension transmission system contributes appreciably in reducing the cost of delivered power.

Alco Motor Truck Record.

The American Locomotive Co., 39 Church St., New York, in issuing a monthly bulletin on the subject of its motor trucks, gives the performance of the Alco three-ton truck in a record non-stop run of 1009 miles, load of 13,120 pounds, 7 days 10 minutes. The route was confined to the streets of New York city, except that the final run was made from New York to Philadelphia under the auspices of the Contest Board of the American Automobile Association. The record was remarkable in that the run to Philadelphia was made during one of the worst blizzards of the winter, with muddy and slippery roads, the snow blowing directly in the driver's face, making the going uncertain and the test very severe.

The Highway Improvement News.

The Tennessee Metal Culvert Co. of Nashville has published the March number of Highway Improvement News, containing eight pages of data and illustrations bearing on the advantages and increasing use of Dixie American Ingot-Iron culverts. Testimonials are presented from chief engineer of the Chattanooga Southern Railroad; H. F. Holt, highway engineer; S. H. David, secretary of Board of Commissioners, Jacksboro, Tenn., and George L. Kelly, Department of Public Instruction, West Point, Tenn. An interesting illustration is that of a workman carrying on his shoulder a section of corrugated culvert 14 feet long, 18 inches in diameter, showing the lightness and ease of handling this culvert material.

Barrett Specifications.

The Barrett Manufacturing Co. of New York has issued a heavy cardboard set of Barrett specifications for felt, pitch and gravel or slag roofing, which is in convenient form for use, and with accompanying sketches of the work presents the whole subject in compact form. Standard methods of inspection as the work progresses are given, and on the reverse side of the card, which is about 11 inches square, a roof construction diagram is made showing graphically the increased cost of constructing steep roofs as compared with those of flat surfaces, also rise or pitch of roofs in inches and degrees. These Barrett specifications and other booklets, samples and tracings, showing detail of application, are provided on request from the New York office or nearest branch office.

Bourbon Copper and Brass Works.

A catalogue has been issued by the Bourbon Copper & Brass Works Co., 618 E. Front St., Cincinnati, with illustrations and descriptions of the various fire hydrants and fittings, street washers, gate valves, foot valves, water gates, stop valves and extension valve boxes manufactured by the company. Dimension and price tables are given; also tables showing pounds pressure lost by friction, and the horizontal and vertical distances reached by jets with heads from 29 to 100 pounds per square inch. Several pages of testimonials are given, including letters from many of the most prominent fire-department chiefs, superintendents of water-works and water commissioners. The company was established in 1830, and has confined its manufactures exclusively to water-works and fire-department supplies.

Cooper Hewitt Electric Lamps.

Bulletin No. 26 of the Cooper Hewitt Electric Co., 8th and Grand Sts., Hoboken, treats exclusively of the indoor type P lamp for direct current. It describes the lamp in detail, with illustrations and complete directions for ordering, obtaining renewals, etc., and a list of district sales offices is given. Bulletin No. 28 of the company details the advantages of Cooper Hewitt lamps and their various uses, and the locations in which they are desirable. These bulletins describe this light as "better than daylight," and it is stated that by means of them desk work, factory work, and especially all work requiring accurate color vision, is made more efficient and therefore gives a large return for the small outlay in proper lighting. In other words, "light is cheaper than labor." It is a vapor light, giving light rays as distinguished from heat rays.

Steel Production in 1910.

The American Iron and Steel Association has ascertained the production of all kinds of steel in the United States in the calendar year 1910, both ingots and direct castings being included. The production of Bessemer steel was 9,412,772 gross tons; of open-hearth steel, 16,504,509 tons; of crucible steel, 122,303 tons; of electric and miscellaneous steel, 55,355 tons. The total production of steel was 26,094,919 tons, against a total production of 23,955,021 tons in 1909.

FINANCIAL NEWS

THE MANUFACTURERS RECORD invites information about Southern financial matters. Items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern matters.

Review of the Baltimore Market.

Office MANUFACTURERS RECORD.

Baltimore, Md., March 22.

There was a moderate amount of business in the Baltimore stock market during the past week. In the trading United Railways common sold from 17 to 18½; do. trust certificates from 17½ to 18½; do. incomes, 62½ to 63½; do. funding 5s, 86½ to 87½; do. scrip, 86½ to 86; do. 4s, 84½ to 84¾; United Light & Power 4½s, 93; Consolidated Gas, Electric Light & Power common, 92½ to 93, reacting to 90; do. preferred, 98½ to 100; do. 4½s, 87 to 88; Consolidated Gas 5s, 108½; do. 4½s, 96½; Seaboard Company common, 24½ to 25; do. second preferred, 53½ to 54½; Seaboard Air Line preferred, 39½ to 40; Seaboard 4s, stamped, 86½; do. 10-year 5s, 100½; do. adjustment 5s, 75½; Consolidated Cotton Duck common, 5; Cotton Duck 5s, 73½ to 73¾; G.-B.-S. Brewing common, 1¾; do. firsts, 45½ to 45.

Bank stocks sold as follows: Citizens', 42; Mechanics', 28½ to 28¾; Merchants', 190; Farmers and Merchants', 50½; Exchange, 164½; Bank of Baltimore, 154½. Fidelity & Deposit sold at 155; Baltimore Trust, 166; American Bonding, 79; United States Fidelity, 163.

Other securities were traded in thus.

Atlantic Coast Line of Connecticut, 226½ to 226; Alabama Consolidated Coal & Iron preferred, 72; Baltimore City 3½s, 1980, 91 to 90½; Georgia, Carolina & Northern 5s, 105¾; Norfolk & Portsmouth Traction 5s, 86; West Virginia Central 6s, 100½; Anacostia & Potomac 5s, 100½ to 100¼; do. guaranteed, 102¾; Fairmont Coal 5s, 97 to 97½; Houston Oil common, 8; do. preferred, 53½ to 55; Jamison Coal & Coke, George's Creek 5s, 95 to 94; Maryland Electric 5s, 98½ to 98¾; Alabama Consolidated Coal & Iron 5s, 85½ to 86, reacting to 85; Carolina Power & Light 5s, 92½; Fairmont & Clarksburg Traction 5s, 98¾; Knoxville Traction 5s, 105; Maryland & Pennsylvania 4s, 88½ to 88¾; do. incomes, 63; Northern Central Railway stock, 124½ to 124; Baltimore, Sparrows Point & Chesapeake 4½s, 96; Virginia Railway & Power 5s, 92½ to 93; Milwaukee Electric Railway & Light refunding 4½s, 93; Washington & Vandemere 4½s, 94½; Merchants & Miners' Transportation Co., voting trust, 77; Coal & Iron 5s, 101½; Petersburg B, 116; Baltimore Brick common, 2¼; do. 5s, 81½ to 82; Norfolk & Atlantic Terminal 5s, 92; Baltimore & Potomac tunnel 6s, 100¼; Consolidation Coal, 100 to 100½; Norfolk Railway & Light stock, 25; do. 5s, 90½; Atlantic Coast Line convertible debenture 4s, 97; Charleston Consolidated Electric 5s, 96 to 95½; Baltimore City Passenger 5s, 100¼; Syracuse Gas 5s, 1946, 102¼.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended March 22, 1911.

| Railroad Stocks. | Par. | Bid. | Asked. |
|---------------------------------|------|------|--------|
| Atlantic Coast Line..... | 100 | 119½ | 120 |
| Atlantic Coast of Conn..... | 100 | 226 | 226½ |
| Georgia Southern & Florida..... | 100 | 25 | 49 |
| Georgia Sou. & Fla. 2d Pfd..... | 100 | 25 | 73 |
| Norfolk Railway and Light..... | 25 | 25 | 25 |
| Seaboard Co. Com..... | 100 | 24½ | 24½ |
| Seaboard Co. 1st Pfd..... | 100 | 84 | 84 |
| Seaboard Co. 2d Pfd..... | 100 | 53½ | 54 |
| United Ry. & Elec. Co..... | 50 | 18 | 18½ |

| Bank Stocks. | Par. | Bid. | Asked. |
|--------------------------|------|------|--------|
| Citizens'..... | 100 | 41 | 41 |
| Drovers & Mechanics..... | 100 | 222 | 229 |
| Farmers & Merchants..... | 100 | 50 | 51 |
| First National..... | 100 | 163 | 161 |
| German..... | 100 | 163 | 163 |
| Maryland..... | 100 | 20 | 26 |
| Merchants..... | 100 | 190 | 190 |
| Bank of Baltimore..... | 100 | 154½ | 155 |
| Bank of Commerce..... | 100 | 15 | 31½ |
| Exchange..... | 100 | 163 | 163½ |
| Howard..... | 100 | 13½ | 14 |
| Marine..... | 100 | 39 | 42 |
| Mechanics..... | 100 | 18 | 29 |
| Union..... | 100 | 138½ | 142 |
| Old Town..... | 100 | 13 | 14 |
| Western..... | 100 | 29 | 49½ |

Trust, Fidelity and Casualty Stocks.

| | | | |
|----------------------------|-----|------|------|
| Baltimore Trust..... | 100 | 165½ | 166 |
| Continental Trust..... | 100 | 294 | 296 |
| Fidelity & Deposit..... | 50 | 155 | 155 |
| Maryland Casualty..... | 25 | 97 | 97 |
| Maryland Trust..... | 100 | 85 | 85 |
| Maryland Trust Pfd..... | 100 | 108 | 122½ |
| Merc. Trust & Deposit..... | 50 | 143 | 144½ |
| U. S. Fidelity & Guar..... | 100 | 162 | 164 |

Miscellaneous Stocks.

| | | | |
|--------------------------------|-----|------|------|
| Ala. Con. Coal & Iron..... | 100 | 35 | 35 |
| Ala. Con. Coal & Iron Pfd..... | 100 | 72 | 72 |
| Con. Cot. Duck Com..... | 50 | 39 | 39 |
| Con. Cot. Duck Pfd..... | 50 | 39 | 39½ |
| Con. Gas, E. L. & P. Com..... | 100 | 99 | 99½ |
| Con. Gas, E. L. & P. Pfd..... | 100 | 99 | 99½ |
| Consolidated Coal..... | 100 | 109½ | 109½ |
| G.-B.-S. Brewing Co..... | 100 | 1½ | 2½ |
| Mer. & Miners' Trans. Co..... | 100 | 73 | 77 |
| Baltimore Brick..... | 100 | 3 | 3 |
| Baltimore Brick Pfd..... | 100 | 22½ | 25 |

Railroad Bonds.

| | | | |
|--|------|------|------|
| Atlantic Coast 1st 4s..... | 94 | 94½ | 94½ |
| At. Coast Conv. Deben. 4s..... | 97½ | 97½ | 97½ |
| At. C. (Conn.) 4s, Cfs. 5-20s..... | 92 | 93½ | 93½ |
| At. Coast (Conn.) 5s Cfs..... | 104½ | 104½ | 104½ |
| Balto. & Annap. S. L. 5s..... | 94 | 94 | 94 |
| Balto. & Harb. Ext. 5s..... | 92 | 93 | 93 |
| Carolina Central 4s..... | 92 | 93 | 93 |
| Coal & Coke Railway 5s..... | 93 | 93 | 93 |
| Coal & Iron Railway 5s..... | 91 | 92 | 92 |
| Col. & Green, 1st 6s..... | 106½ | 107½ | 107½ |
| Georgia & Alabama 5s..... | 105 | 105½ | 105½ |
| Georgia & Florida 5s..... | 80 | 82 | 82 |
| Georgia, Car. & North, 1st 5s..... | 104½ | 105½ | 105½ |
| Georgia Pacific 1st 6s..... | 111 | 111 | 111 |
| Georgia Southern & Florida 1st 5s..... | 106 | 106 | 106 |
| Maton, Dublin & Savannah 5s..... | 97½ | 98 | 98 |
| Maryland & Pennsylvania 4s..... | 116 | 117 | 117 |
| Piedmont & Cumberland 1st 5s..... | 109 | 109 | 109 |
| Potomac Valley 1st 5s..... | 105 | 105 | 105 |
| Raleigh & Aug. 1st 6s..... | 114 | 118 | 118 |
| Richmond & Danville 6s..... | 105½ | 105½ | 105½ |
| Seaboard 4s Stamped..... | 86½ | 87½ | 87½ |
| Seaboard Adjustment 5s..... | 75 | 76 | 76 |
| Seaboard 10-year 5s..... | 100 | 100½ | 100½ |
| Seaboard & Roanoke 5s..... | 100½ | 108 | 108 |
| Seaboard & Roanoke 6s..... | 100 | 102 | 102 |
| Southern Midland G. M. 5s..... | 95 | 95 | 95 |
| Washington & Vandemere 4½s..... | 94 | 94 | 94 |
| Western Maryland 4s..... | 80½ | 83½ | 83½ |
| Western N. C. Con. 6s..... | 104½ | 104½ | 104½ |
| West Va. Central 1st 6s..... | 100½ | 109½ | 109½ |

Street Railway Bonds.

| | | | |
|--------------------------------------|------|------|------|
| Anacostia & Potomac 5s..... | 100½ | 100½ | 100½ |
| Anacostia & Potomac 5s, Gtd..... | 102½ | 103½ | 103½ |
| Augusta Railway & Electric 5s..... | 101 | 102 | 102 |
| Baltimore City Passenger 5s..... | 100½ | 100½ | 100½ |
| Baltimore City Passenger 4½s..... | 99½ | 99½ | 99½ |
| Baltimore, Sp. Pl. & C. 4½s..... | 102 | 102 | 102 |
| Baltimore Traction 1st 5s..... | 108 | 108 | 108 |
| Central Railway (Balt.) Ext. 5s..... | 103½ | 104 | 104 |
| Charleston City Railway 5s..... | 95½ | 96 | 96 |
| Charleston Con. Elec. 5s..... | 95½ | 96 | 96 |
| City & Suburban 5s (Wash.)..... | 105 | 105 | 105 |

| | | | |
|--------------------------------------|------|------|------|
| Fairmont & Clarksburg Trac. 5s..... | 98 | 98½ | 98½ |
| Knoxville Traction 5s..... | 105 | 105½ | 105½ |
| Lake Roland Elevated 5s..... | 102½ | 102½ | 102½ |
| Lexington Railway 1st 5s..... | 85 | 85 | 85 |
| Maryland Electric Railways 5s..... | 98½ | 98½ | 98½ |
| Memphis Street Railway 5s..... | 96 | 97½ | 97½ |
| Metropolitan 5s (Wash.)..... | 106 | 106 | 106 |
| Norfolk & Atlantic Terminal 5s..... | 91 | 94 | 94 |
| Newport News & Old Pt. G. M. 5s..... | 69 | 74 | 74 |
| Norfolk & Portsmouth Trac. 5s..... | 98½ | 98½ | 98½ |
| Norfolk Railway & Light 5s..... | 99½ | 99½ | 99½ |
| United Railways 1st 5s..... | 84½ | 84½ | 84½ |
| United Railways Income 4s..... | 61 | 61½ | 61½ |
| United Railways Funding 5s..... | 85½ | 86 | 86 |

Miscellaneous Bonds.

| | | | |
|-------------------------------------|------|------|------|
| Ala. Con. Coal & Iron 5s..... | 85½ | 85½ | 85½ |
| Baltimore Brick 5s..... | 82 | 82½ | 82½ |
| Baltimore Electric 5s, 8½..... | 90½ | 91 | 91 |
| Consolidation Coal Refdg. 4½s..... | 90½ | 95 | 95 |
| Consolidated Gas 5s..... | 109½ | 109½ | 109½ |
| Consolidated Gas 4½s..... | 96½ | 96½ | 96½ |
| Con. Gas, Elec. Lt. & P. 4½s..... | 87½ | 88 | 88 |
| Con. Gas, Elec. Lt. & P. Notes..... | 99 | 99½ | 99½ |
| G.-B.-S. Brewing 1st 5s..... | 45 | 45½ | 45½ |
| G.-B.-S. Brewing Income 5s..... | 101 | 101 | 101 |
| Maryland Steel Co. 5s..... | 101 | 101 | 101 |
| Mt. Vernon Woolly Cot. Duck 5s..... | 73½ | 74 | 74 |
| United Elec. Lt. & P. 4½s..... | 91½ | 91½ | 91½ |

SECURITIES AT BALTIMORE.

Quotations Furnished by William S. Glenn, Broker, Spartanburg, S. C., for Week Ending March 20.

| | Bid. | Asked. |
|--|------|--------|
| Abbeville Cotton Mills (S. C.)..... | 75 | 75 |
| Aiken Mfg. Co. (S. C.)..... | 80 | 80 |
| American Spinning Co. (S. C.)..... | 160 | 160 |
| Anderson Cotton Mills (S. C.)..... | 48 | 48 |
| Anderson Cotton Mills (S. C.) Pfd..... | 100 | 100 |
| Arcadia Mills (S. C.)..... | 98 | 98 |
| Arkwright Cotton Mills (S. C.)..... | 99 | 99 |
| Augusta Factory (Ga.)..... | 48 | 40 |
| Avondale Mills (Ala.)..... | 116 | 116 |
| Belton Mills (S. C.)..... | 130 | 138 |
| Brandon Mills (S. C.)..... | 95 | 108 |
| Brogan Mills (S. C.)..... | 90 | 90 |
| Cannon Mfg. Co. (S. C.)..... | 135 | 135 |
| Cabarrus Cotton Mills (N. C.)..... | 130 | 135 |
| Chadwick Mfg. Co. (N. C.) Pfd..... | 100 | 100 |
| Chilquola Mfg. Co. (S. C.)..... | 170 | 170 |
| Clifton Mfg. Co. (S. C.)..... | 85 | 85 |
| Clinton Cotton Mills (S. C.)..... | 120 | 120 |
| Columbus Mfg. Co. (Ga.)..... | 93 | 98 |
| Courtney Mfg. Co. (S. C.)..... | 100 | 100 |
| Dallas Mfg. Co. (Ala.)..... | 99 | 99 |
| Darlington Mfg. Co. (S. C.)..... | 80 | 80 |
| D. E. Converse Co. (S. C.)..... | 100 | 100 |
| Dreighton Mills (S. C.)..... | 95 | 100 |
| Eagle & Phenix Mills (Ga.)..... | 117 | 117 |
| Enley Cotton Mills (S. C.)..... | 105 | 105 |
| Enoree Mfg. Co. (S. C.)..... | 50 | 55 |
| Enoree Mfg. Co. (S. C.) Pfd..... | 96 | 96 |
| Enterprise Mfg. Co. (Ga.)..... | 80 | 85 |
| Exposition Cotton Mills (Ga.)..... | 200 | 200 |
| Gaffney Mfg. Co. (S. C.)..... | 67 | 72 |
| Gainesville Cotton Mills (Ga.)..... | 72 | 80 |
| Glenwood Cotton Mills (S. C.)..... | 150 | 150 |
| Gluck Mills (S. C.)..... | 102 | 102 |
| Greenville Cotton Mills (S. C.)..... | 35 | 45 |
| Graniteville Mfg. Co. (S. C.)..... | 155 | 165 |
| Greenwood Cotton Mills (S. C.)..... | 57 | 60 |
| Grendel Mills (S. C.)..... | 90 | 103 |
| Hartsville Cotton Mill (S. C.)..... | 160 | 175 |
| Henrietta Mills (N. C.)..... | 160 | 175 |
| Imman Mills (S. C.)..... | 100 | 108 |
| King Mfg. Co. J. P. (Ga.)..... | 90 | 93 |
| Lancaster Cotton Mills (S. C.)..... | 130 | 130 |
| Lancaster Cot. Mills (S. C.) Pfd..... | 97 | 100 |
| Langley Mfg. Co. (S. C.)..... | 120 | 127 |
| Laurens Mills (S. C.)..... | 127 | 135 |
| Lincolnton Mills (S. C.)..... | 155 | 160 |
| Lockhart Mills (S. C.)..... | 68 | 68 |
| Lockhart Mills (S. C.) Pfd..... | 90 | 100 |
| Loray Cotton Mills (N. C.) Pfd..... | 95 | 97½ |
| Marlboro Cotton Mills (S. C.)..... | 75 | 80 |
| Mills Mfg. Co. (S. C.)..... | 102 | 102 |
| Molokan Mfg. Co. (S. C.)..... | 95 | 105 |
| Monaghan Mills (S. C.)..... | 190 | 190 |
| Monarch Cotton Mills (S. C.)..... | 105 | 105 |
| Newberry Cotton Mills (S. C.)..... | 125 | 129 |
| Ninety-Six Cotton Mills (S. C.)..... | 150 | 150 |
| Norris Cotton Mills (S. C.)..... | 121 | 130 |
| Olympia Cotton Mills (S. C.)..... | 90 | 90 |
| Orr Cotton Mills (S. C.)..... | 95 | 95 |
| Pacolet Mfg. Co. (S. C.)..... | 90 | 90 |
| Pacolet Mfg. Co. (S. C.) Pfd..... | 95 | 100 |
| Pelzer Mfg. Co. (S. C.)..... | 109 | 109 |
| Piedmont Mfg. Co. (S. C.)..... | 175 | 177 |
| Poe Mfg. Co. F. W. (S. C.)..... | 110 | 125 |
| Saxon Mills (S. C.)..... | 130 | 130 |
| Sibley Mfg. Co. (Ga.)..... | 71 | 78 |
| Spartan Mills (S. C.)..... | 132 | 132 |
| Tacon Mfg. Co. (Ga.)..... | 130 | 130 |
| Tenapa Mills (S. C.)..... | 210 | 250 |
| Union-Buffalo (S. C.) 1st Pfd..... | 74 | 80 |
| Union-Buffalo (S. C.) 2d Pfd..... | 16 | 16 |
| Victor Mfg. Co. (S. C.)..... | 115 | 120 |
| Warren Mfg. Co. (S. C.)..... | 107 | 107 |
| Warren Mfg. Co. (S. C.) Pfd..... | 106 | 110 |
| Washington Mills (Ga.)..... | 38 | 38 |
| Washington Miller (Va.) Pfd..... | 110 | 110 |
| Windsor Mills (S. C.)..... | 110 | 110 |
| Windsor Mills (N. C.)..... | 135 | 135 |
| Woodruff Cotton Mills (S. C.)..... | 110 | 110 |
| Woodside Cotton Mills (S. C.)..... | 95 | 100 |
| Watts Mills (S. C.)..... | 80 | 90 |
| Williamston Mills (S. C.)..... | 120 | 125 |

January 7, 1911, shows loans and discounts, \$32,579,058; due from banks, bankers and trust companies, \$4,726,742; due from approved reserve agents, \$13,850,832; cash on hand, \$1,519,811; capital stock paid in, \$11,860,400; surplus fund, \$11,287,234; undivided profits, \$3,061,003; due to banks, bankers and trust companies, \$1,651,551; due to approved reserve agents, \$333,511; deposits, demand, \$50,418,976; deposits, time, \$18,341,190; total resources, \$97,880,464.

Bank Statements.

The First National Bank of Richmond, Va., reports March 7 loans and discounts, \$7,728,562; cash and due from banks, \$1,953,285; capital, \$1,000,000; surplus fund, \$1,000,000; undivided profits, \$109,805; circulation, \$366,350; total deposits, \$6,976,095; total resources, \$10,834,500. John B. Purcell is president; John M. Miller, Jr., vice-president and cashier; Frederick E. Nolting, vice-president; Chas. R. Burnett, J. C. Joplin, W. P. Shelton and Alex. F. Ryland, assistant cashiers.

The National Exchange Bank of Baltimore, Md., reports at close of business March 7, 1911, total resources, \$7,218,552; loans and discounts, \$3,901,718; due from banks, \$775,925; cash and due from reserve agents, \$868,331; capital stock, \$1,000,000; surplus and undivided profits, \$708,983; circulation outstanding, \$917,897; deposits, \$4,466,671; Waldo Newcomer, president; Summerfield Baldwin, vice-president; R. Vinton Lausdale, cashier, and Clinton G. Morgan, assistant cashier.

FINANCIAL CORPORATIONS.

Ala., Birmingham.—The Bethea Real Estate & Insurance Co. is reported to have filed articles of incorporation; capital \$4000; S. Bethea, president; John B. Bethea, vice-president; John R. Bethea, secretary and treasurer.

Ark., Watson.—The Bank of Watson is reported chartered; capital \$100,000; officers, G. T. Blackwood, president; W. J. Masseu, vice-president, and E. M. Ford, secretary.

Fla., Branford.—Official: The Branford State Bank chartered; capital \$15,000; S. M. Martin, president; Fred W. Phillips, cashier; directors, S. M. Martin, J. J. Dumpsy, M. A. Best, H. J. Heath, all of Branford, and A. L. Humphreys, Live Oak, Fla. Business began March 14.

Fla., Key West.—Press dispatches state that the State Casualty Co., being organized with \$50,000 capital, has elected temporary officers thus: George W. Allen, president; William R. Porter, treasurer, and W. Hunt Harris, secretary. Principal office will be in Key West. Company proposes to conduct a general insurance business in the United States and foreign countries.

Fla., Sarasota.—Official: The Citizens' Bank chartered; capital \$25,000; directors, Owen Burns, president; Oscar A. Burton, first vice-president; G. W. Franklin, second vice-president; R. H. Johnson, cashier; Geo. Winslow, P. D. Lacy, C. M. Howard, G. W. Franklin, R. H. Johnson, W. C. Sheehy and I. R. Burns. Business is to begin in about 60 days.

Ga., Rowman.—Reported chartered: Farmers' Bank, capital \$25,000; incorporators, R. L. Rice, P. V. Rice, Sr., J. L. Ginn, O. S. Seymore, D. J. Pitts and B. L. Cordell, all of Rowman.

Ga., Clio.—Reported that the Citizens' Bank of Guyton will establish a branch at Clio.

Ga., Cordele.—The Cordele Banking Co. is reported being organized.

Ga., Macon.—Official: The Standard Insurance & Realty Co. chartered; capital \$25,000; incorporators, J. M. Dunwoody, Eugene Emerson, J. L. Dunwoody, W. E. Dunwoody and E. H. Hyman. Business is to begin April 1.

Ky., Dover.—Reported that the Equitable Trust Co. of Dover has filed articles of incorporation; capital \$15,000. It is stated a branch will be established in Maysville.

Ky., Whitesburg.—A national bank, capitalized at \$50,000, is reported being organized by J. W. Fuller and others of Campton.

La., New Orleans.—The New Orleans Casualty Co. is reported to have been granted a commission; officers, president, R. N. Sims, Donaldsonville, La.; first vice-president, L. M. Pool; second vice-president, Capt. John Dibert; treasurer, E. G. Swartz, Burton, La.; secretary, Horace Brownell, New Orleans, La.; general counsel, Hon. J. C. Henriques.

Miss., Greenville.—The Mississippi Building & Investment Co., capital \$25,000, is reported organized by Joe Weinberg, W. P. Kretschmar and others.

Miss., Jackson.—The Delta Mortgage Loan & Guaranty Co. is reported chartered; capital \$500,000; incorporators, A. H. Longino, R. B. Ricketts and J. J. Reese of Jackson; William Delray of Rome, Ga., and J. A. Gorham of Birmingham, Ala.

Miss., Ruleville.—Official: The People's State Bank incorporated; capital \$25,000; incorporators, E. P. Shopner, Ruleville; R. T. Peebles, Boyle, Miss., and D. W. Shopner, Mt. Pleasant, Tenn. Business is to begin April 1.

N. C., Creedmoor.—The Farmers' Insurance & Trust Co. is reported chartered; capital \$50,000; stockholders, I. E. Harris, S. C. Lyon, W. D. Sandling and B. E. Green.

N. C., Hobbsville.—The Farmers' Bank of Gates, authorized capital \$10,000, with \$5200 paid in, is reported chartered by C. B. Hathaway, E. A. Roundtree, S. B. Carter and others.

N. C., Vass.—Official: The Bank of Vass, chartered; capital \$10,000; incorporators, J. A. Keith, D. A. McLauchlin, J. W. Kaneer and A. Cameron.

Okla., Elk City.—The First National Bank is reported chartered; capital \$50,000; E. K. Thurmond, president; I. C. Thurmond, vice-president; A. L. Thurmond, cashier; H. C. Ford, J. P. Thurmond and Phil S. Hocker, assistant cashiers.

Okla., Hydro.—Official: The First National Bank, which is a conversion of the Hydro State Bank, is reported chartered; capital \$25,000; directors, Geo. B. Pope, president; W. H. Collins, vice-president; Roy M. Felton, cashier; B. D. Woods, E. M. Wilson. Business began March 8.

Okla., Kingfisher.—The People's National Bank, capital \$30,000, is reported chartered; B. J. Conley, vice-president; J. M. Speice, cashier; Chas. T. Speice, assistant cashier. This is a conversion of the People's State Bank of Kingfisher.

Okla., Lenapah.—The Lenapah National Bank, capital \$25,000, is reported chartered. The officers are George A. Elrod, president; J. H. M. Holmes, vice-president, and George W. Hunter, cashier.

Okla., Nowata.—Reported chartered: The Commercial National Bank; capital \$50,000; W. A. Davis, president; D. S. Litchfield, vice-president; Hugh Branson, cashier; H. Axley, assistant cashier.

Okla., Nowata.—The Producers' National Bank is reported chartered; capital \$50,000; F. B. Reynolds, cashier. This is a conversion of the Producers' State Bank of Nowata.

Okla., Shawnee.—The Industrial Trust Co. of Oklahoma, capital \$1,000,000, is reported organized with J. W. McNeal of Guthrie, president; Jay J. Byran, Goleta, Colo., vice-president; J. Lloyd Ford, Shawnee, secretary.

Okla., Tulsa.—Official: The Oklahoma National Bank, 3d and Main Sts., chartered; capital \$100,000. Business began March 7; incorporators, G. R. McCullough, A. E. Bradshaw, L. K. Cone, S. Dezell Hawley, J. M. Hall, H. O. McClure and W. G. Williamson.

S. C., Carlisle.—Official: The Union County Real Estate, Loan & Investment Co. has been issued a commission; capital \$25,000; Wm. H. Gist, president; C. A. Jester, vice-president; Miss Sadie Gist, secretary-treasurer; directors, C. A. Jeter, P. H. Jeter, W. E. Hatchford and Wm. H. Gist of Carlisle, C. C. Edwards, Chester, S. C., and W. B. Wright, Shelton, S. C. Business is to begin at once.

S. C., Winnsboro.—The Winnsboro Insurance & Real Estate Co. is receiving subscriptions to its capital stock; charter provides for \$7500 capital; president, J. E. McDonald; vice-presidents, W. Julian Arnette and J. L. Robinson; secretary-treasurer, Frank A. Sharpe.

Tenn., Dyersburg.—Official: The West Tennessee Investment Co. of Dyer County, Tennessee, incorporated; capital \$25,000; incorporators, W. C. Paris, M. W. Ewell, L. C. Fumbanks, J. J. Whitesides, F. D. Hobb, O. Temple, W. P. Watson, I. N. Rowes and N. W. Colcutt. Business is to begin in a few days.

Tenn., Memphis.—The German-American Savings Bank is reported to have made application for a charter; capital \$25,000; in-

corporators, J. J. Tanner, J. E. Scheibler, V. A. Cordes, Joseph Isele, Henry Streull and others.

Tex., Appleby.—The First State Bank of Appleby, capital \$10,000, is reported incorporated by Charles H. Tindall, J. H. Seay, W. H. Seay and others.

Tex., El Paso.—The Central Investment Co., capital stock paid in \$500,000, is reported organized with directors thus: W. W. Cooley, C. N. Bassett, R. F. Burges, G. H. Pollard and Joe E. Morga.

Tex., Garland.—The First Guaranty State Bank incorporated; capital \$20,000; incorporators, Jesse Tucker, W. C. Kingsley, M. C. Williams and others.

Tex., Jacksonville.—Official: Chartered: First Guaranty State Bank, formerly the Jacksonville State Bank; capital \$50,000; surplus \$500; directors, W. C. Bolton, president; F. L. Devereux, vice-president; John Howard, cashier, and T. S. Hutton, R. O. Watkins, A. G. Adams and J. D. Williams.

Tex., Orange.—The Southern Live-Stock Insurance Co. is reported organized with \$10,000 capital; officers, Sam C. Tremble, president; George E. Holland, vice-president; F. W. Hustmyre, secretary; G. M. Sells, treasurer; J. J. Love, general agent.

Tex., Sherman.—The American Bank & Trust Co. is reported to have begun business in the Randolph Building; capital \$200,000; directors, W. C. Eubank, president; D. S. Thompson, vice-president, and Barlow Roberts, cashier; T. D. Joiner, George Hardwicke, C. E. Craycroft, I. J. Kimberlin, C. A. Kelly, T. U. Cole, F. A. Batsell, C. B. Decheater.

Tex., Tioga.—The First Guaranty State Bank, capital \$25,000, is reported incorporated by J. F. Rogers, Z. L. Wright, J. B. Pondrum and others.

Tex., Webster.—The Webster State Bank, capital \$10,000, is reported incorporated by J. S. Kendall, Jesse H. Jones, R. L. Winfrey and others.

Waco, Tex.—Official: The Farmers and Merchants' State Bank chartered and incorporated; capital \$100,000; incorporators, M. L. Garrett, L. Fouts and W. W. Lastinger. Business began March 9.

Va., Elba.—The Elba Savings Bank, capital \$10,000, is reported organized with Dr. R. T. Ramsey, president; John A. Davis, vice-president, and Walter C. Noel, cashier.

Va., Richmond.—The Richmond Mutual Building & Loan Co. is reported chartered; capital \$5000 to \$100,000; J. L. Rohleder, president; William A. Green, vice-president; P. L. Anderson, secretary and treasurer, all of Richmond.

W. Va., Winding Gulf.—Official: The Winding Gulf Bank incorporated; capital \$25,000; incorporators, L. N. Franz, Mullens, W. Va.; W. E. Degans, Glen Jean, W. Va.; John Laing, Charleston, W. Va.; John Faulkner, Glen Jean and A. M. Herndon, Winding Gulf. Business is to begin in about 60 days. L. N. Franz will be cashier.

W. Va., Northfork.—The State Bank of Northfork chartered; capital \$20,000; incorporators, R. R. Roberts, S. H. Huff and I. H. Robbin of Northfork; E. H. Evans of Elkhorn and A. D. Rice of Worth.

W. Va., Reedsville.—The Farmers and Merchants' Bank of Reedsville is reported chartered; capital \$25,000; incorporators, Osval Watson, E. E. Ashburn, G. R. Zinn, Thomas N. Tanner and others.

W. Va., Warwood.—The Bank of Warwood is reported chartered; capital \$25,000; incorporators, Alfred Paul, Fred J. Kennamond of Wheeling; W. E. Helffenbine and J. W. Wieler of Warwood, and George S. Eberts of Loveland.

NEW SECURITIES.

Ala., Gadsden.—Reported that the election to vote on \$50,000 of 5 per cent. 35-year water works bonds will be held April 24.

Ala., Flomaton.—School bonds are reported voted.

Ala., Gadsden.—Reported that the election to vote on \$50,000 of 5 per cent. 30-year water-works bonds will be held April 24.

Ala., Mobile.—Official: Bids will be opened April 17 for \$169,000 of 5 per cent. 20-year Mobile county refunding bonds. Address Geo. E. Stone, Treasurer.

Ala., New Decatur.—An ordinance is reported passed authorizing an issue of \$20,000 of storm-sewer bonds.

Ark., Fort Smith.—The William R. Compton Company and the Mercantile Trust Co., both of St. Louis, are reported to have purchased, at par and accrued interest, \$550,000 of water-works bonds. Harry E. Kelly is chairman Board of Improvement.

Fla., Brooksville.—March 27 an election is to be held to vote on \$2000 of sidewalk, \$3000 of bridge construction, \$1100 of fire engine, \$1500 of fire station and council chambers, \$7000 for street paving and \$3100 for retiring old bonds; interest not to exceed 6 per cent.; denomination \$100. Fred L. Stringer is Mayor.

Fla., Jasper.—Press reports state that the question of issuing improvement bonds is under consideration.

Fla., South Jacksonville.—Reported that an election will be held April 6 to vote on \$90,000 of sewerage and electric-light bonds.

Ga., Americus.—Official: April 4 election will be held to vote on \$65,000 of 4½ per cent. 30-year bonds; \$25,000 for water-works improvement and \$40,000 for sewerage; denomination \$1000; date of opening bids not yet decided. Address J. E. Mathis, Mayor, and City Council.

Ga., Glennville.—Official: Defeated: \$15,000 of 5 per cent. 20-year public school building bonds. Address Chairman, Board of Education.

Ga., Hamilton.—An official letter confirms report that it is proposed to issue \$15,000 of school bonds, but says plans are not yet definitely matured. J. R. Lansford is City Clerk.

Ga., Macon.—Reported voted: \$900,000 of water-plant bonds. John T. Moore is Mayor.

Ga., Oglethorpe.—April 12, it is reported, an election is to be held to vote on \$18,000 of water and light bonds.

Ga., Pelham.—Reported voted: \$25,000 of water, light and other improvement bonds.

Ky., Louisville.—J. W. and D. S. Green of Louisville are reported to have been awarded at 107.188 the \$500,000 of 4½ per cent. 40-year hospital bonds. John H. Leathers is chairman Hospital Commission.

La., Alexandria.—Official: The matter of holding an election to vote on \$100,000 of bridge over Red River and 200,000 of road 5 per cent. 20-40-year bonds will be brought before the Police Jury at its April meeting. Address Paul Lissio.

La., Baton Rouge.—Official: Efforts are being made to float bond issue with which to build a courthouse and jail; also for drainage, good roads, etc.; election has not yet been called. J. Geblin is president Police Jury.

La., Rayne.—Reported that \$25,000 of school bonds have been sold.

La., Forest Hill.—Official: C. H. Coffin, Chicago, Ill., January 1 purchased \$20,000 of 6 per cent. eight-year school-building bonds. D. B. Showalter is superintendent of schools.

La., Slidell.—Official: Bids will be received until noon April 7 for \$20,000 of 5 per cent. 5-20-year school building bonds; denomination \$1000. Address Paul Gardere, Mayor.

La., Tallulah.—An official letter confirms report of election March 21 to vote on \$15,000 of 5 per cent. 20-year Madison Parish district high-school building bonds. Address C. M. Hughes, Superintendent of Schools.

Md., Baltimore.—Vote will be taken in May on \$100,000 sewerage loan. J. Barry Mahool is Mayor.

Md., Brunswick.—The People's National Bank of Brunswick is reported to have been awarded at par \$5000 of 5 per cent. 10-25-year street bonds. A. B. Hedges is City Clerk and Treasurer.

Md., Easton.—Official: Voted February 23: \$40,000 of 4 per cent. 1-40-year bonds for sanitary-sewer system, with disposals; denomination \$1000. Date of opening bids not yet decided.

Md., Hagerstown.—Press dispatches state that it is proposed to issue bonds of low denominations for erection of music hall.

Miss., Greenville.—Official: Bids will be opened April 3 for \$100,000 of 30-year Washington county refunding courthouse and jail bonds; denomination \$1000. Address W. W. Miller, clerk Board of Supervisors of Washington County.

Miss., Ripley.—Bids were received until 10 A. M. March 29 for \$5000 of 6 per cent. bonds of Muddy-Bottom Swamp Land District, No. 1. Denomination \$100. Address Board of Supervisors of Tippah county, J. W. Street, Clerk.

Mo., Kirksville.—J. M. McCall, Mayor, now writes that the bond issue has been abandoned, but probably only for the present, as it is likely the question will be taken up when the new administration comes in next month.

Mo., Sedalia.—Reported that application is

[For Additional Financial News, See Pages 76 and 77.]

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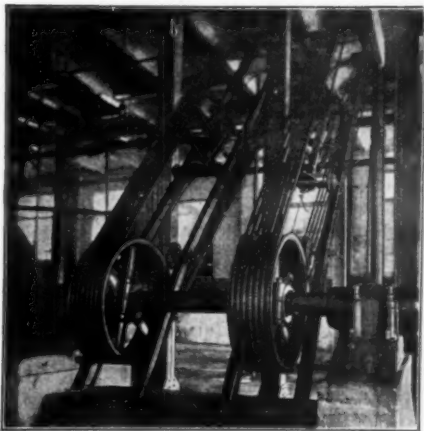
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to be made to the Pettis County Court to call an election to vote on \$100,000 of road bonds.

N. C., Black Mountain.—Notice is given that an election is to be held April 11 to vote on \$15,000 of 6 per cent. water works and sewerage bonds. G. W. Stepp is Mayor.

N. C., Carthage.—Reported that on April 4 Moore county will vote on \$100,000 of road bonds.

N. C., Charlotte.—June 5, it is reported, an election will be held to vote on municipal improvement bonds.

N. C., Elizabeth City.—Official: Bids will be received until 8 P. M. April 5 for \$120,000 of 5 per cent. 30-year curbing and street-paving bonds; denomination \$1000 or more. Z. Fearing is Mayor.

N. C., Fayetteville.—Official: March 22 election was held to vote on \$50,000 of 5 per cent. bonds of Cross Creek township, including Fayetteville. Bonds, if carried, will be offered as soon after election as practicable. J. M. Lamb is chairman board of trustees of Fayetteville graded schools and John A. Gates vice-chairman.

N. C., Morehead.—A Chicago firm is reported to have been awarded \$20,000 of 5½ per cent. 30-year water-works bonds; W. J. Hales, secretary-treasurer.

N. C., Oxford.—The Hillyer Trust Co. of Atlanta is reported to have purchased \$20,000 of 5 per cent. 30-year school-building bonds.

N. C., Salisbury.—Official: Bids will be opened April 10 for \$50,000 of 5 per cent. 40-year funding and refunding bonds; denomination \$1000; dated May 1, 1911; maturity May 1, 1951. Address A. L. Smoot, Mayor.

N. C., Southport.—Reported voted: \$15,000 of railroad aid bonds.

N. C., Wendell.—May 1, it is reported, an election will be held to vote on \$10,000 of 6 per cent. 30-year school-building bonds. C. H. Anderson is Register of Deeds and clerk to Board of Wake County Commissioners.

N. C., Salisbury.—Press dispatches state that the proposed bond issue for the Salisbury to Monroe railroad carried in Monroe, but was defeated in Goose Creek township; Monroe voted on \$60,000 and Goose Creek \$20,000. It is stated that another election will probably be held in the latter town.

N. C., Winston-Salem.—Reported voted: \$100,000 of 4½ per cent. 20-year refunding bonds; denomination \$500 and \$1000.

Okla., Ada.—March 24 an election is to be held to vote on \$150,000 of water-works bonds.

Okla., Blackwell.—Reported that an election is to be called to vote on \$75,000 of high-school building and \$13,000 of park bonds.

Okla., Guthrie.—Reported that bids will be received by the State Treasurer until April 1 for \$750,000 of 5 per cent. public-building bonds.

Okla., Hugo.—Official: April 25 election is to be held to vote on \$125,000 of courthouse and site and \$120,000 of bridge bonds. Sutherland & Co. of Kansas City have been awarded the bonds. J. W. Milam is clerk of Choctaw county.

Okla., Muskogee.—Reported that \$650,000 of improvement bonds have been purchased by Spitzer, Rorick & Co. of Toledo, O., at par and accrued interest.

Okla., Sapulpa.—R. J. Edwards of Oklahoma City is reported to have purchased at par \$120,000 of 5 per cent. 25-year refunding Creek county refunding bonds. Abner Brun is County Clerk.

S. C., Columbia.—Reported voted: \$75,000 of bridge bonds.

S. C., Edgely.—The question of holding an election to vote on \$15,000 of electric-light bonds is reported under consideration.

S. C., Greenville.—Official: Bids will be received until April 4 by A. E. Sussex, City Clerk, for \$7000 of 20-year bonds for refunding maturity issue; denomination \$1000; dated April 1, 1911; maturity April 1, 1931.

S. C., Greenwood.—Press dispatches state that the Legislature has passed a bill authorizing Greenwood county to vote on \$110,000 of bonds to pay off past indebtedness and to have cash on hand.

S. C., Spartanburg.—Official: Bids will be received until noon May 1 for \$11,000 of 4½ per cent. 20-year refunding bonds. Address J. B. Lee, Mayor. J. B. Carlisle is City Treasurer.

S. C., Spartanburg.—Press dispatches state that steps are being taken to hold an election to vote on bonds as follows: Fire protection, \$9000; for purchase of city hall or park or grounds, \$40,000; for floating indebtedness, \$90,000; permanent improvements of streets and sidewalks, \$50,000; total \$189,000.

S. C., Sumter.—Official: Bids will be received by C. M. Hurst, City Clerk, until April 10 for \$25,000 of 5 per cent. 20-40-year

street-improvement bonds; dated February 14, 1911; maturity 1941; denomination \$1000 or as buyer prefers.

Tenn., Chattanooga, T. C. Thompson, Mayor, writes, "No bond issue contemplated at this time." This would deny report that \$45,000 of 4½ per cent. 30-year bonds are to be issued.

Tenn., Chattanooga.—Official: Bids will be received until noon March 25 for \$500,000 of 4½ per cent. 30-year Hamilton county road bonds. J. V. Williams is County Judge.

Tenn., Cookeville.—Official: Bids will be received until April 8 for \$100,000 of 4½ per cent. 30-year Putnam county good-roads bonds. Address Jas. N. Cox, secretary Putnam County Good-Roads Commission.

Tenn., Erin.—Official: W. M. Adams, Mayor, will receive bids until noon April 6 for \$10,000 of 5 per cent. 10-20-year school-building bonds. Denomination \$500.

Tenn., Nashville.—Steps are reported being taken to sell \$80,000 of Davidson county colored normal school bonds.

Tenn., Newport.—Reported that an election will be held April 29 to vote on bonds for waterworks. Address Board of Aldermen.

Tenn., Springfield.—An official letter confirms sale of \$150,000 of Robertson county pike bonds.

Tenn., Trenton.—Application has been made to the Legislature, it is reported, to float \$22,000 in bonds for electric-light plant.

Tenn., Trenton.—Reported that Gibson county proposes to issue \$20,000 of high-school-building bonds.

Tex., Archer City.—March 25, it is stated, an election is to be held to vote on \$12,000 of 6 per cent. 5-40-year water-works bonds.

Tex., Austin.—The Attorney-General has approved securities as follows: \$15,000 of 4½ per cent. 10-40-year Seguin schoolhouse bonds; \$75,000 of 5 per cent. 10-40-year Corpus Christi sanitary sewer bonds.

Tex., Beaumont.—Press dispatches state that a Columbus (O.) firm has purchased \$488,000 of navigation bonds.

Tex., Brownsville.—Reported voted: \$145,000 of bonds—for street paving, \$80,000; electric light and water-works, \$50,000; city hall improvement and market, \$12,000; slaughterhouse, \$3000. It is stated also that \$80,000 of bonds for school purposes are to be issued.

Tex., Bryan.—The First National Bank is reported to have purchased at par and accrued interest \$33,000 of water, light and sewerage bonds.

Tex., Caldwell.—Official: Petitions are being circulated to ask the Commissioners' Court to order elections on two separate bond issues, namely, \$4000 for Buda County Improvement District, No. 2, and \$80,000 for courthouse. They will probably be 20-40-year 5 per cents. So far, the Commissioners' Court has done nothing, the petitions being simply circulated, but not presented or filed. Joseph Wondrash is County Clerk, and W. H. Hundley, Deputy.

Tex., Cameron.—Steps are reported being taken to issue \$200,000 or \$250,000 of 5 per cent. 40-year road-improvement bonds.

Tex., Chapin.—Reported that Felix Schowfeldt of Hidalgo has taken at par in payment for constructing schools \$10,000 of District No. 4, \$9000 of District No. 10 and \$6000 of District No. 5 Hidalgo county school district bonds.

Tex., Coleman.—City is reported to have sold \$20,000 of electric-light-plant bonds.

Tex., Corpus Christi.—An election is about to be held, it is reported, to vote on \$50,000 of 5 per cent. 10-40-year municipal wharf construction and equipment bonds.

Tex., Dallas.—Official: April 4 an election is to be held to vote on \$250,000 of school bonds. S. J. Hay is Mayor, and C. B. Gillespie Commissioner of Finance and Revenue.

Tex., Eagle Lake.—Reported that an election is to be held to vote on \$30,000 of water-works and sewerage system bonds.

Tex., Farmersville.—Press dispatches state that the secretary of Farmersville school district will receive bids at any time for \$20,000 of 5 per cent. 30-40-year high-school construction bonds; denomination \$500.

Tex., Galveston.—Galveston county has voted to raise the interest on the \$500,000 of causeway bonds from 4 to 5 per cent.

Tex., Galveston.—Official: An election is about to be held to decide the question of raising the rate of interest on the \$500,000 of Galveston county causeway bonds from 4 per cent. to 5 per cent. Mr. John M. Murch is County Auditor.

Tex., Hearne.—Press dispatches state that an election is to be held to vote on water-works bonds, a previous election having been declared void. J. W. Pinkerton is Mayor.

Tex., Houston.—H. B. Rice, Mayor, will, it is reported, receive bids until noon April 19 for \$50,000 of 4½ per cent. 20-30-year Main St. bridge and viaduct bonds.

Tex., Kountz.—W. A. Myrick of Beaumont, for Spitzer & Co. of Toledo, is reported to have purchased Hardin county 5 per cent. bonds as follows: \$100,000 of 20-year Road District No. 3 and \$35,000 of 10-30-year Road District No. 2.

Tex., Marlin.—Bids will be received until April 1 for \$18,000 of 5 per cent. 10-40-year Falls county bridge bonds. Address W. E. Hinnicutt, County Judge.

Tex., Paris.—Reported voted: \$25,000 of paving, \$15,000 of school-improvement and \$10,000 of public-comfort-station bonds.

Tex., Paris.—Official: April 22 election will be held to vote on \$300,000 of good-roads bonds of Precinct 1, Lamar county. T. J. Record is president Lamar County Good Roads Association.

Tex., Pearsall.—Press dispatches state that Frio county has purchased \$1500 of Derby and \$1000 of Fisher district schoolhouse bonds.

Tex., Petty.—Reported that Petty Independent School District will vote in May on school bonds.

Tex., Premont.—Bonds for school building are reported sold.

Tex., Roscoe.—Reported voted: Bonds for water-works.

Tex., Wharton.—April 10, it is reported, an election is to be held to vote on \$45,000 of 5 per cent. 40-year bonds.

Tex., Waxahatchie.—Reported voted: \$15,000 of school-building bonds.

Tex., Wichita Falls.—Official: March 25 an election is to be held to vote on \$15,000 of Wichita county bridge bonds. W. A. Reid is County Clerk.

Va., Farmville.—Press dispatches state that it is proposed to issue \$65,000 of water bonds.

Va., Pulaski.—Well, Roth & Co. of Cincinnati are reported to have purchased \$70,000 of Pulaski county road bonds.

Va., Suffolk.—The Farmers' Bank of Nantsemond, Suffolk, was awarded at \$35 premium the \$40,000 of 5 per cent. school bonds; J. Norfleet, Mayor.

W. Va., New Martinsville.—Notice is given that the Wetzel County Court has authorized an election in Magnolia district April 19 to vote on \$100,000 of 10-34-year bonds in aid of the proposed Clarksburg & Northern Railroad. I. S. Myers is clerk of county court.

END OF NEW SEC IN RECORD ONLY.

At Spartanburg, S. C., bids will be received until noon May 1 for \$11,000 of 4½ per cent. 20-year refunding bonds. Further particulars will be found in the advertising columns.

At Mobile, Ala., bids will be opened April 17 for \$169,000 of 5 per cent. 20-year refunding bonds. Further particulars will be found in the advertising columns.

Putnam county, Tennessee, offers for sale April 8 \$100,000 of 4½ per cent. 30-year good-roads bonds. Further particulars will be found in the advertising columns.

Ga., Clarksville.—The Carnesville Railroad Co. has for sale \$100,000 of 5 per cent. first mortgage 50-year gold bonds for construction purposes. J. H. Hicks is secretary.

The Carnesville Railroad Co. is offering for sale \$100,000 of 5 per cent. 50-year bonds for construction purposes. Further particulars will be found in the advertising columns.

At Durham, N. C., bids will be received until 2 P. M. March 25 for \$145,000 of 4½ per cent. 30-year funding bonds. Further particulars will be found in the advertising columns.

At Newton, Miss., bids will be received until 4 P. M. April 4 for \$11,000 of 6 per cent. 20-year electric-light bonds. Further particulars will be found in the advertising columns.

At Chattanooga, Tenn., bids will be received until noon March 25 for \$500,000 of 4½ per cent. 20-year Hamilton county road bonds. Further particulars will be found in the advertising columns.

62 VIRGINIA-CAROLINA CHEMICAL CO. Treasurer's Office Richmond, Va., March 14, 1911. Dividend No. 62

The Board of Directors have this day declared a dividend of TWO (2%) PER CENT., the same being consecutive Quarterly Dividend No. 62 on the Preferred Stock of this Company, payable April 15, 1911, to stockholders of record at the close of business March 31, 1911.

Preferred transfer books will be closed from 3 P. M., March 31, 1911, to 10 A. M., April 17, 1911.

S. W. TRAVERS, Treasurer.

SURETY BONDS

Fidelity and Deposit Co. OF MARYLAND

Home Office, BALTIMORE, MD

Assets Over \$5,000,000

Pioneer Surety Co. of the South. Becomes Surety on bonds of every description.

AGENTS IN ALL PRINCIPAL CITIES
HARRY NICODEMUS, EDWIN WARFIELD,
Sec'y and Treas. President

GO SOUTH!

Real Estate, Timber, Phosphate, Coal, Iron, Farm, Ranch, and Other Properties and Investments in Southern States and Mexico, correspond with

SOUTHERN STATES DEVELOPMENT CO.
GEO. B. EDWARDS, President,
Tribune Bldg., 154 Nassau St., New York, N. Y.
Connections in the Principal Cities of Europe

CRUSSELLE AUDIT CO.

(INCORPORATED)

ACCOUNTANTS AUDITORS
SYSTEMATIZERS

1006 Candler Bldg. ATLANTA, GEORGIA

All audits conducted by or under direct supervision of members of the company.

PUBLIC ACCOUNTANTS

The South-Eastern Audit Co. COLUMBIA, S. C.

CHARLES NEVILLE Accountant and Auditor BUSINESS SYSTEMS

212-213 National Bank Building SAVANNAH, GA.

Long Distance Phone. References—Any Bank in Savannah.

STEEL DIE OR STEEL PLATE LETTER-HEADS

WE have an equipment for doing steel plate and steel die letter-heads which is unequalled anywhere. We can probably astonish you with the low prices we can quote you on this class of work. We will be glad to furnish you some beautiful samples on application.

Young & Selden Co.

BANK STATIONERS BALTIMORE, MD.

Lithographing, Printing, Envelopes
Blank Book Makers, Book Binding
Letter Heads, Office Supplies
Steel Die Work



Every Seven Minutes

a new Burroughs begins to save time and money for some one. And the 110,000 now in use keep right on saving.

Think of the thousands of hours and the thousands of dollars saved each day by the Burroughs Bookkeeping Machines.

It takes a vast company of 3,000 men to supply the world with Burroughs Machines and to care for users everywhere. And we do take good care of them; they make our best future customers. It costs us \$300,000 a year to maintain Burroughs Service—and it pays our users and us.

Burroughs Adding Machine Co.
80 Burroughs Block
Detroit, Michigan

1279-A

At Elizabeth City, N. C., bids will be received until 8 P. M. April 5 for \$120,000 of 5 per cent. 30-year curling and street-paving bonds. Further particulars will be found in the advertising columns.

At Sumter, S. C., bids will be received until noon April 10 for \$25,000 of 5 per cent. 20-year street-improvement bonds. Further particulars will be found in the advertising columns.

FINANCIAL NOTES.

The Bruceville State Bank of Bruceville, Tex., is reported to have decided to increase its capital from \$10,000 to \$20,000.

The Florida Bankers' Association will hold its annual meeting at Ocala May 10-11.

The American Bankers' Association executive council will meet at Nashville May 1-3.

The Georgia Bankers' Convention will be held at Atlantic Beach, Fla., June 8 and 9.

The Tennessee Bankers' Association will meet at Nashville May 29-30.

The Texas Bankers' Association will meet at Dallas May 16 and 18.

The Virginia-Carolina Chemical Co. has declared a quarterly dividend of 2 per cent. on its preferred stock, payable April 15, 1911. S. W. Travers is treasurer.

The Tennessee Valley Bank of Decatur, Ala., will, it is reported, increase its capital from \$100,000 to \$250,000.

The First State Bank of Klondike, Tex., is reported to have filed an amendment to its charter, increasing its capital from \$10,000 to \$20,000.

The First State Bank of Streetman, Tex., according to press dispatches, has increased its capital from \$10,000 to \$20,000.

The Dayton State Bank, according to press dispatches, has decided to increase its capital from \$20,000 to \$50,000.

The People's National Bank of Charleston, S. C., is reported to be doing business in its new building at the corner of Broad and State streets. R. G. Rhett is president.

The Columbia Savings & Trust Co. of Columbia, Tenn., according to press dispatches, has decided to increase its capital from \$40,000 to \$50,000 and change its name to the Columbia Bank & Trust Co.

\$120,000.00 City of Elizabeth City (N. C.) Bonds for Sale

Bids will be received for the purchase of \$120,000 of City of Elizabeth City (N. C.) Bonds, issued by the said city for Curbing and Street Paving purposes. Bonds to be in denomination of \$1000 or more and to bear interest from date, to run 30 years from issue, and to bear interest at 5 per cent. per annum, interest payable semi-annually. Bids to be accompanied by certified check for \$5000, payable to the City Treasurer of said city. Check to be returned to bidder in case bid is not accepted. Otherwise to become the property of said city and to be applied as payment on bonds if the bid is accepted. Bids to be filed with the Mayor of the city on or before the 5th day of April, 1911, at eight o'clock P. M.

Bids not in accordance with the above advertisement will not be considered. The right to reject any or all bids is reserved.

Z. FEARING,
Mayor.

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DUZETS & SON ELECTRICAL & STEAM MACHINERY Hudson Terminal Bldg., NEW YORK

ENGINES

1500 H. P. Watts-Campbell twin tandem Corliss.
17x34x36 Fitchburg Corliss, cross compound.
14x28x24 Buckeye, cross compound.
12x22x42 Hewes & Phillips, cross compound.
12x22x42 "Improved Greene," tandem.
14x20x22 Ideal, tandem.
26x18 Harris Corliss.
22x24 Harris Corliss.
22x24 Erie Ball, automatic.
20x48 Brown, four-valve.
18x42 Alfa Corliss.
18x24 Ide, side-crank.
16x42 Harris Corliss.
14x36 Harris Corliss.
14x24 Murray, slide-valve.
12x36 Hamilton Corliss.
10x20 Twiss Corliss.

BOILERS

2 100 H. P. Erie City H. R. T. Boilers, 100 pounds steam pressure.
4 72"x18" Erie City H. R. T. Boilers, 125 pounds steam pressure.

ELECTRICAL

110 K. W. Crocker-Wheeler, 125-volt dynamo, 725 R. P. M.
50 K. W. Sprague, 125-volt dynamo, 640 R. P. M.
37½ K. W. Westinghouse, 125-volt dynamo, 900 R. P. M.

GAS AND OIL ENGINES

125 H. P. Westinghouse, three-cylinder vertical gas engine, direct connected to 100 K. W. Westinghouse 250-volt generator.
100 H. P. and 85 H. P. Westinghouse gas engine.
40 H. P. and 15 H. P. Hornsby Akroyd oil engines.

Send for complete "Bargain List"



WE SELL

"BOSTON" LAMPS

the Best Refilled Lamp Made

We Buy Burned Out Lamps

at highest prices—Write us

Boston Incandescent Lamp Co.

128 Maple Street
DANVERS, MASS.

Manufacturers, Here Is The Best Distributing Point In The Southwest!

SWITCH PROPERTY

For LEASE or RENT

60,000 Feet of Floor Space

Second and Dock Streets

This property is the Best Located Manufacturing or Warehouse Property in St. Louis. One square East of Broadway. Two squares from the river.

This Building has large platforms. The basement is 14 feet from floor to ceiling. First floor 16 feet. Second floor 14 feet. Third floor 12 feet. Foundation of extra heavy cut stone. Brick laid in cement. Heavy timbers, throughout. The property is equipped with switches front and rear, and only 15 minutes' hauling distance to depots of LOUISVILLE & NASHVILLE, CHICAGO & EASTERN ILLINOIS, ROCK ISLAND, FRISCO, IRON MOUNTAIN, MISSOURI, KANSAS & TEXAS, WABASH and BURLINGTON RAILROADS.

Being in the heart of the greatest railroad section in the city, inbound cars and empties for outbound are handled quicker than in any other part of the city.

What better shipping facilities could you want? See this building and location.

For further information, call or write,

HAFNER MANUFACTURING CO.

Second and Dock Streets,

ST. LOUIS MO.

Classified Opportunities

AGENCIES WANTED

WANTED—Sales agency for all lines pertaining to builders' material; East Tennessee as territory; can furnish satisfactory references to interested concern. Address Daniel Briscoe, Jr., Knoxville, Tenn.

PACIFIC COAST AGENCY WANTED.—Are you represented on the coast? Live wire and hustler with selling organization and many connections is open for a good line. At present in the East ready to investigate a line of merit. "G. B." care of Premier Eng. & Mfg. Co., 25 Broad St., New York.

AGENTS AND SALESMEN WANTED

WE WANT SALESMEN visiting building trades to sell our line of wood mantels, tiles and grates as a side line; good commission paid. W. J. Northross Company, 64 S. Second St., Memphis, Tenn.

WANTED—High-grade salesman with grit and determination to sell merchants and doctors; exceptional opportunity and very remunerative for right man. Address Sheehy Co., McClelland Bldg., Lexington, Ky.

ABSOLUTELY new invention; engine-room specialty; sells on sight to manufacturers for \$1. Big commission. Agents and jobbers wanted. P. O. Box 621, Richmond, Va.

WANTED—Agents everywhere. We resharpen all kinds of Safety Razor Blades and allow liberal commissions. A splendid opportunity. Write now for particulars and terms. Velvet Edge Company, Keyser Bldg., Baltimore, Md.

WANTED—Real salesmen acquainted with building and contract work to handle concrete mixers. The American is a batch mixer giving a perfect mix either wet or dry. It is sold under a liberal commission arrangement without requiring any financial investment by the agent. A good seller in other sections and should prove attractive in the South with pushing. Address Cargill Mfg. Co., 567 Buttles Ave., Columbus, O.

MANAGERS WANTED

MANAGER FOR WAGON WORKS.—Established in one of the most progressive cities in the Southeast; equipped for 100 to 300 wagons per year. Splendid timber district. Excellent opportunity for experienced man with \$2500 or more to invest in the business and manage its affairs. For further information refer to file No. 35,476 and address M. V. Richards, Land and Industrial Agent Southern Railway, 1375 Pennsylvania Avenue, Washington, D. C.

MANAGER FOR GLOVE FACTORY.—Factory includes working-shirt making; is in a prosperous town in a Southeastern State, on the Southern Railway. Competent man with \$500 to invest is wanted to take entire charge of factory and office. Refer to file 21,623. M. V. Richards, Land and Industrial Agent, Southern Railway Company, 1375 Pennsylvania Ave., Washington, D. C.

HELP WANTED

WANTED—A practical planing-mill man to handle two machines; must understand his business and be able to serve the local trade and load out cars quick. F. C. Thomas, Manning, S. C.

SITUATIONS WANTED

GRADUATE CIVIL ENGINEER, 31, with number years' practical experience, now employed, wishes connection with contractor or contracting engineer on salary and percentage basis; good estimator, designer, buyer and business-getter on reinforced concrete, brick, steel or other large work; will invest yearly amounts in the business; am now producing good results, although under adverse conditions. Only reliable parties and those meaning business need reply. Address No. 760, care Manufacturers Record.

WANTED—Position as Master Mechanic or Supt. in a pipe foundry or manufacturing plant; 25 years' experience. Address N. W. Cor. 6th and Washington Sts., Camden, N. J.

DRAUGHTSMAN on ornamental iron, 18 years' office and shop experience on stair work, elevator enclosures, etc., wishes position. Address No. 766, care Manufacturers Record.

CIVIL ENGINEER, contractors' superintendent, 10 years' experience in location, construction, maintenance and operation of Southern railroads, desires change. Address No. 745, care Manufacturers Record.

CIVIL ENGINEER of eight years' practical experience in railroad construction will be open for employment after April 1; South or Southwest preferred. Address "M. C. G.," Box 261, Ashland, Ky.

WANTED—Position as secretary of industrial club, board of trade or chamber of commerce; young man who can get the goods; best references, Baxter Genoble, Bethune, S. C.

AS MANAGER of brick or tile plant; Southern preferred; 20 years' experience in all departments; can handle any kind of clay or machinery; references. Address No. 754, care Manufacturers Record.

Rate 20 cents per line per insertion. Minimum space accepted, four lines. Maximum space accepted, 24 lines. Allow seven words per line. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, whiskey or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year, as follows: 100 lines, 18c. per line; 300 lines 16c. per line; 500 lines or more, 15c. per line.

WANTED—Position as Southern representative for a reliable Eastern or Western house by young man of wide acquaintance among manufacturing industries, architects and engineers of the South. Seven years' experience. Teetotaler. Absolutely reliable and trustworthy. Can give highest possible recommendations. Address No. 765, care of Manufacturers Record.

EDUCATIONAL

RENSSELAER POLYTECHNIC INSTITUTE, TROY, N. Y.—Courses in Civil, Mechanical and Electrical engineering, and General Science, leading to the degrees of Civil Engineer (C.E.), Mechanical Engineer (M.E.), Electrical Engineer (E.E.), and Bachelor of Science (B.S.). Special courses in engineering and science. Splendidly equipped new engineering laboratories. Send for catalogues to Registrar.

BANKS

THE CITIZENS' BANK OF NORFOLK, Va., capital \$300,000, surplus \$375,000, solicits accounts of banks, firms, corporations and individuals.

COMMERCIAL STATE BANK, Birmingham, Ala. State depository. Prompt attention to Alabama collections.

THE PALMETTO NATIONAL BANK, Columbia, S. C., capital \$250,000, solicits accounts of banks, firms, corporations and individuals, either commercial or savings accounts.

ACCOUNTANTS AND AUDITORS

SHELDON AUDIT COMPANY, certified public accountants and auditors, Candler Building, Atlanta, Ga. Audits, systems, examinations. Highest testimonials. Reasonable charges. Correspondence solicited.

BUSINESS OPPORTUNITIES

FOR SALE BY OWNERS.—Manufacturing plant with 2400 acres of timber land, in the north Mississippi oak belt; 32 cottages, commissary, stables, drykline, and factory buildings with 18,000 ft. floor space; 200 H. P. steam plant; inexhaustible supply of deep-well water; railroad station, sidetrack, etc.; good farm land when the timber is removed; a fine proposition for getting out rough or finished stock for factory requiring oak or hickory. Address H. J. S., Fyland, Miss.

WANTED—A first-class planing-mill and carpenter-shop foreman who can take one-half interest in \$20,000 business and look after the factory end of the business; fine location, good climate, and on main line of the best railroad in the South. Address No. 761, care Manufacturers Record.

WANTED—To sell outright, or contract with manufacturer to make and sell on royalty basis, improved combination lemon squeezer and slicer; patent pending; simple; cheap. Garland Kirvin, Box 153, Linden, Ala.

WANTED—Line of iron or brass specialties or hardware to manufacture; would consider good articles on royalty basis. Palmetto Auto and Iron Works, Greenville, S. C.

WE BUY everything in old scrap material and pay highest market prices; no quantity too large or too small. H. Kander & Co., Bowling Green, Ohio.

NAMES.—Texas gin and mill men, ten thousand, only \$10; six thousand truck and fruit growers, \$5; taxpayers in several counties, 50 cents per thousand. The Truck Farmer Publishing Co., Dallas, Tex.

WANTED—To correspond with desirable associates who can finance one of the largest and most desirable coal properties, situated on the Norfolk & Western Railroad in West Virginia. Address Dawson Development Co., Room 406, Coyle & Richardson Building, Charleston, W. Va.

FOR SALE—Grocery, feed, coal, coke and wood business in a city of 5000 inhabitants, with only three coal dealers; doing a business of \$10,000 a year; located in one of the finest cities in Michigan, with the best of schools, etc. Parties meaning business, for further particulars, write McMillen & Son, Mt. Pleasant, Mich.

FOR SALE—Profitable jobbing business staple hardware specialties; investment about \$3500; good future; good reasons for selling; might consider small piece good land in exchange. Address No. 762, care Manufacturers Record.

CHANGEABLE GEAR FOR BICYCLES.—High, intermediate and low gear immediately available; the only real improvement in bicycles for years. Prospective purchasers address J. M. Fleming, Pensacola, Fla.

BUSINESS CHANCE.—Turpentine proposition for sale at a bargain. For full and complete information and reason for selling address Capital Heights Co., Tallahassee, Fla.

WANTED—A partner with \$6000 to engage in the Sheet Metal Manufacturing Business at San Antonio, Texas; city of 100,000 population and territory of 200 miles square without a plant of this kind. Finest proposition of this kind in the Southwest. Write to me at once if you mean business. C. P. Hollingsworth, Georgetown, Texas.

WANTED—Partner with ten to fifty thousand dollars, or with a small modern machine shop, against advertiser's ten thousand and inventions, to manufacture line of machinery which will pay thirty to sixty per cent. profit after first year. Advertiser now receiving four thousand yearly in same line as sales manager, in which line he has had twenty-seven years' experience as machinist, patternmaker, draftsman, designer, salesman, sales manager, assistant to general manager. Designs for four machines completed; others started. Address "Safety Machines," care Manufacturers Record.

IF YOU HAVE STANDING TIMBER FOR SALE, list it with us. We will find a buyer. We cannot undertake to sell anything not worth the money. Branchville Timber Co., Branchville, Va.

CONTRACTORS WANT WORK

WANTED—Work for a No. 1 Thew traction shovel with dump wagon or car outfit; available at once. Wm. H. Lichtenberg & Co., Contractors, Columbus, Ohio.

SEWAGE DISPOSAL

SEWAGE DISPOSAL.—The Annular System House Sewage Disposal is adapted to private residences, hotels, schools, court-houses and jails. The patronage of small towns and communities is especially solicited. Write us. Annular Sewage Disposal Co., 453 Hood Building, Birmingham, Ala.

TYPEWRITERS

ENTERPRISE EXCHANGE, INC., 609 E. Baltimore St., Baltimore, Md.; remanufactured typewriters, all makes; three days' examination allowed; catalogue upon request; full line of ribbons, carbons and papers.

TYPEWRITERS.—Real Remington, \$12.00; Calligraphs, \$6.00; Hammonds, Yost, Densmore or Williams, \$12.00; Smith Premiers, \$15.00; Oliverts, \$21.00; Underwoods, \$25.00. Fifteen days' free trial, and year's guarantee. Four typewriter ribbons, \$1.00. Typewriter Exchange, Dept. M. R., 211 West 125th St., New York City.

MONEY WANTED

CAN USE \$50,000 for five or ten years at 5 per cent.; will give first mortgage on farm property at 40 per cent. valuation. B. E. Norvell, Bay City, Texas.

LOCATIONS

INDUSTRIAL.—The Gulf Line Railway traverses the choice section of South Georgia; offers rare opportunity to home seekers; liberal concessions to parties desiring locations for factories and other industries. For particulars address J. H. Hillhouse, Vice-Pres., Sylvester, Ga.

WHY PALMETTO LEADS.—The 800,000 boxes of fruits and early vegetables attests the superiority of soil, climate and irrigation necessary to produce such crops. The ease with which such crops are handled by rail and water make it an ideal place for fruit and vegetable growing. The Manatee River, Terra Ceia and Tampa bays furnish ideal salt-water fishing, boating and bathing. For further information address The Manatee River Board of Trade, Palmetto, Florida.

FACTORY SITES

FREE SITES and other liberal assistance; cheap fuel; natural gas, oil, coal and abundant water; six railroads. Address Chamber of Commerce, Wichita Falls, Texas.

FACTORY SITES.—Free sites and other concessions for factories; center of the greatest coal field in the West; excellent shipping facilities; need cottonseed-oil mill, furniture factory, tile and brick factory and cement-plant. Industrial Club, Hartshorne, Okla.

INDUSTRIES WANTED

FURNITURE FACTORY

PROXIMITY to unlimited high-grade timber and an unsurpassed market make successful manufacture certain in McAlester, Oklahoma, where many additional wood-working plants will find an ideal location; free site and other liberal assistance. Call on or write the Commercial Club, and they will prove it.

MISCELLANEOUS

ALEXANDRIA, LOUISIANA, situated in the geographical center of the State, with seven railroads and a navigable river, surrounded by magnificent forests of native woods, and in the heart of a splendid agricultural section, offers an ideal location for manufacturing industries. Correspondence solicited. Address Secretary Alexandria Progressive League.

"BUSIEST AND BEST BUILT CITY IN TEXAS." Wichita Falls, possesses unsurpassed natural resources and advantages. Offers exceptional opportunities for investors; free sites for manufacturing establishments; cheap fuel; natural gas, oil, coal, electricity and abundant water from the largest body of water in Texas; six railroads; raw material at hand; latest approved public utilities; creosoted wood block pavement throughout business section; over fifty miles concrete sidewalks. Most rapidly developing city in Southwest. Handsome booklet and detailed information upon request. Address Chamber of Commerce, Wichita Falls, Texas.

SAN ANTONIO, TEXAS, with her splendid facilities and ideal climate, is after many other industries, which will receive very substantial encouragement. The Real Estate Exchange will cheerfully furnish information for benefit of industries seeking new locations. Population 95,614. Cheap fuel and labor. Artesian water in abundance. Address J. C. Rice, Secretary, San Antonio, Texas.

COME TO SHREVEPORT, LOUISIANA, if you are interested in the manufacture of glass, building brick, paving brick, terracotta, pottery. We have iron ore, rock salt, sulphur close at hand. Natural gas at low price. Oil lands at low price. Fine hardwood and yellow pine timber. Fine farming lands at one-half the price of the same kind of lands in the North or West. Shreveport is well drained and located in the hills of Northwest Louisiana; has good climate. Write for literature. L. C. Bulkey, Secretary.

VICTORIA, TEXAS, head of navigation of Guadalupe River; center of cotton, corn, truck and citrus fruit-growing district of South Texas; country rapidly developing; opportunities for many industries. If interested in the coastal section of Texas, write for booklet "D" to the Secretary of the Progressive League.

HILLSBORO, TEXAS, is the county seat of Hill county, 65 miles south of Dallas, 55 miles east of Fort Worth, 35 miles north of Waco. Hill county raises the second to third largest cotton crop of any county in the South. Hillsboro wants a gas factory, a garment factory, an interurban street-car line. Franchise will be granted to right party. Now have three railroads located; two mail lines. For further information write A. L. Blanchard, Secy., Hillsboro, Tex.

COME TO BELZONI, MISS. Located on the Y & M. V. R. R., the Southern Railway and the Yazoo River, 150 miles south of Memphis, Tenn. We need a wagon factory, plants for the manufacture of gum staves, gum heading, elm hoops, also hardwood manufacturing plants. Millions of feet of raw material can be bought cheap. The town will offer special inducements to manufacturers locating here. We have nothing to sell (except groceries), but we are vitally interested in the development of the country and the welfare of the town. For further information write Belzoni Grocery Co., Belzoni, Miss.

MANUFACTURES WANTED.—Free taxes, water, gas and electricity for five (5) years; three railroads and Ohio River. C. F. Kleiderer, Henderson, Ky.

STUTTGART wants a cotton gin and compress, a cottonseed-oil mill, a flour mill, a paper mill, woodworking plants, furniture factory, drain and tile manufacturing plant and a first-class hotel. We have an abundance of the finest quality of raw material for the above-named industries, excellent railroad facilities, water-works, electric-light plant, concrete sidewalks, and it is the intention to pave the streets in the near future. Get a special report on your business from the secretary, Stuttgart Commercial Club, Stuttgart, Arkansas.

WANTED—Drain-Tile Plant, Clay, transportation, fuel, market all unexcelled. Woodworking Plant. Large bodies virgin hardwood close to railway.

Limestone Crusher. Practically inexhaustible supply high-grade rock right on railway; big demand for product; cheap fuel.

All three are gilt-edged propositions; will bear investigation. For particulars address Altuda Farms, Morrison, Tenn. (Waren Co.).

INDUSTRIAL PLANTS FOR SALE

BRICK PLANT

FOR SALE—Modern brick plant at a sacrifice account death of owner. Address Box No. 347, Ocala, Fla.

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